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1797656 segs, 10463268293 residues

Searched:

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Listing first 45 summaries

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Inc. (US) JOURNAL TITLE

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REFERENCE AUTHORS	1 (bases 1 to 1734) Strauberg, R.	ò
	Direct Submitted (05-NOV-2001) National Institutes of Health, Mammalian	qq
	Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,	δ
	USA NIH-MGC Project URL: http://mgc.nci.nih.gov	Q
	Contact: MGC help desk Email: cgapbs-r@mail.nih.gov	70
	Tissue Procurement: ATCC Tissue Procurement: ATCC TOTAL Library Preparation: Life Technologies, Inc.	q
	iny Arrayed by: The L.B.A.G.E. Comborcium ling by: Sequencing Group at the Stanford J	ò
	or medicine, staniora,	q
	Web site: http://www-shgc.stanford.edu Contact: (Dickson, Mark) mcd@paxil.stanford.edu	ò
	Dickson, M., Schmutz, J., Grimwood, J., Rodriquez, A., and Myers, R. M.	g

through the I.M.A.G.E. Consortium/LLML at: http://image.llnl.gov Series: IRAK Plate: 20 Row: m Column: 10. 358 181 GGAGGIGICTICALCCCAGCCALGGGAGGIGCCCTTIGIGAIGIGGITCTICAAACAGAA 240 418 238 120 300 478 Gaps ggggctgagtgccctcgcgccccctcgcgggcccagctgcaactgcacttgcccgccaa GGGGCTGAGTGCCCTCGCGCGCCCCCAGCTGCAACTGCACTTGCCCGCCAA ggaggtgtctcatcccagccatgggaggtgcctttgtgatgtggttcttcaaacagaa 359 agaaaaggagatcaggtgttgtcctacatcaatggggtcacaacaagcaaaccbggagt atccttggtctactccatgccctccggaacctgtccctgcgggctggagggtctccagga 241 AGAAAAGGAGGATCAGGTGTTGTCCTACATCAAGGGTCACAACAAGCAAACCTGGAGT Length 1734; ö Indels IS LACTION = "MISL PGPLVTWLLRFLPLGLSALAPPSRAQLQLHLPANRLQAVE 1. PAWYTLHGEVSSSQ PWEV PYWW PPRQKEKEDQVLSY INGVITSK PGVSLVY NLSLRLEGLQEKDSGPYSCSVNVQDKQGKSRGHSIKTLELNVLVPPAPPSCRL IVGANVTLSCQSPRSKPAVQYQWDRQLPSFQTPFAPALDVIRGSLSLTNLSSSM **CKAHNEVGTAQCNVTLEVSTGPGAAVVAGAVVGTLVGLGLLAGLVLLYHRRGK** andikedalaprtlpwpkssdtiskngtlssvtsaralrpphgpprpgaltpt QALPSPRLPTTDGAHPQPISPIPGGVSSSGLSRMGAVPVWVPAQSQAGSLV" DB 9; 7 ery Match 93.3%; Score 1691.8; st Local Similarity 99.9%; Pred. No. 0; 0; Mismatches uct="Unknown (protein for MGC:17599)" Location/Qualifiers 444 g ue_type="Colon, adenocarcinoma" e_lib="NIH_MGC_65" e="MGC:17599 IMAGE:3850665" 507 c ches 1693; Conservative 8. .1180 "Vector: pCMV-SPORT6" ein_id="AAH16868.1" nism="Homo sapiens" cref="GI:16877213" 396 a ref="taxon:9606" host-"DH10B" n_start=1 Bource COUNT 119 179 61 299

301 ATCCTTGGTCTACTCCATGCCCTCCCGGAACCTGTCCCTGCGGCTGGAGGGTCTCCAGGA 360

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Clone distribution: MGC clone distribution information can

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TITLE, JOURNAL	Direct Submission Submitted (27-APR-2001) Katsuyuki Hashimoto, National Institute	qq	16 GGAGCCGCCTGGGTGTCGGCGACCCGGCTCCGGCACGCTCCGGGCGCTGCGCAGCCT 75
5	Infectious Diseases, Division of Genetic Resources; 23-1, Toyama 1-chome, Shinjuku-ku, Tokyo 162-8640, Japan (E-mail:khashi@nih.go.jp,	충 옵	61 cggcactgcaggtccgtgcgtcccgcggttggcgccctgactccgtcccggccaggga 120
URL, http:// COMMENT	<pre>URL.http://www.nih.go.jp/yoken/genebank/,</pre>	\$ A	121 gggccatgatttccctcccggggccctggtgaccaacttgctgcggtttttgttcctgg 180
	R. Sitel: DraIII (CACTGTGTG) R. Site2: DraIII (CACCATGTG) Description: 1st strand CONN was primed with an oligo(dT) primer [ATGTGGCCTTTTTTTTTTTTTTTT]; double-stranded CDNA was synthesized using specific 5: and 3: primers and amplified by PCR. The PCR	, % qq	
ន	product was digested with Sfil and size selection was performed exclude fragments <1.5kb.The Sfil-digested PCR product was cloned the still be applied to the size of the still be selected.	දු දු	241 ggttgcaggcggtggagggagggaagtggtgcttccagcgtggtacaccttgcacgggg 300
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	(Sugano et al., , Institute of Medical Science, University of Tokyo). Custom primer used for sequencing (5' end primer [CTTCTGCTCTAAAAGCTGCG];	දි දි	361 aaaaggagatcaggtgttgtcctacatcaatgggtcacaacaagcaaactggagtat 420
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Query Match Best Local Sim Matches 1731;	Query Match 91.5%; Score 1659.6; DB 9; Length 1855; Best Local Similarity 95.4%; Pred. No. 0; Matches 1731; Conservative 0; Mismatches 79; Indels 4; Gaps	8 8	781 ctggagtctatgtctgcaaggcccacaatgagtgggcactgcccaatgtaatgtgacgc 840
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5 Qy 1800 gtttgtatgaaaa 20 20 Db 1813 GTATGTATGGATA	AX191588 LOCUS 15-AUG-2001	ACCESSION VERSION KEYWORDS	SOURCE ORGANISM	-	JOURNAL Patent: 1320 FEATURES BOURGE 1335 AGUSTON STATEMENT STATEM	/organism="nomo sapre 1380 /db_xref="taxon:9606" BASE COUNT 221 a 1395 ORIGIN	1439 Query Match 1455 Beel Local Similarity Match 1177. Conservator	1499 0; maccines 11/2; Co 1269 126 atgattto	1559 · Db 1 ATGATTTC 1572 Qy 186 agtgccct	ୁ ପ	1632 Qy 246 caggcggtggac 	Oy 306	1739 Db 181 TCTTCATC 1752 Qy 366 gaggatca	 1799 · Db 241 GAGGATCA
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44439 459456 CONCING OF 5045 DD in length	61139 contig of 5489 bp in 1	65471 contig of 4232 bp in 1	bp in 1	73512 contig of 4370 bp in 1	76146 contig of 2534 bp in]	79045 contig of 2799 bp in	82078 contig of 2933	2703 hn in	sons contig of 2479 bp in	anass contrig of 1767 bp in	92718 contid of 1696 bp in]	94573 contig of 1755 bp tin	95951 contig of 1278 bp in 1	97799 contig of 1748 bp in	97900 100121 contig of 2222 bp in length	ndated (26-May-2000).	* NOTE: This is a 'working draft' sequence. It currently	* consists of 25 contigs. The true order of the pieces	* is not known and their order in this sequence record is	* arbitrary, Gaps between the contigs are represented as	* runs of N, but the exact sizes of the gaps are unknown.	* IDIB record will be updated with the illished sequence	* as soon as it is available and the accession manual ****	* De preserved: * 1 9364: contia of 9364 bo in length	* 9365 9464: gap of 100 bp	tig of	16930: gap of	ig of	23731: gap of 100 bp	* 23732 29864: Concig or biss bp in tengen		38284: contrig of 3220 Jp	tig of	44438: gap of	* 44439 49484: contig of 5046 bp in Length	* 49485 49584: gap of 196 by in length	556	61139: contig of	* 61140 61239; gap or Lou bp	655	69042: contig of	691	73512: contig or	* /3513 /3612: gap or 100 bp * 73613 76146: contig of 2534 bp in length	762	tig of	* 79046 79145: gap of 100 bp		
	AP000680.2 GI:8118868	High High Thabe, high CART. How appiers DNA. Clone: CAR9-25K9.		azoa;	æ	1 (bases 1 to 101458)	Hattori, M., Ishii, K., Toyoda, A., Taylor, T.D., Hong-Seog, P.,	Pujiyama, A., Yada, T., Totoki, Y., Watanabe, H. and Sakaki, Y.	Homo sapiens 101,458 genomic DNA of 11q24	Published Only in DataBase (1999) In press	2 (bases 1 to 101458)	Hattori,M., Ishii,K., Ioyoda,M., Idylor,I.D., Houg-Seog.F., Dudiyama a vada T Totoki V Watanabe H. and Sakaki,Y.	Direct Submission	Submitted (08-NOV-1999) Masahira Hattori, The Institute of		and Chemical Research (RIKEN), Genomic Sciences Center (GSC);	Artabaro Ontv., 1-15-1 Artabaro, Sagamana, Amangama 250 0000, Japan (B-mail:hattori@dsc.riken.go.jb.	URL:http://hgp.gsc.riken.go.jp/, Tel:81-42-778-9923,	Fax:81-42-778-9924)	On May 31, 2000 this sequence version replaced gi:6997554.	Genome Center	Center: RIKEN Genomic Sciences Center (GSC)	Center code: RIKEN	Web site: http://ngp.gsc.riken.go.jp/	Contact: nattoriegsc.riken.go.jp	Center project name: HumDraft11	Center clone name: CMB9-25K9	Summary Statistics	Sequencing vector: PCR products; 100% of reads	Chemistry: Dye-terminator ET-amersham; 100% of reads	Assembly program: Phrap; version 0.990329	Consensus quality: 89733 bases at least Q40 Consensus quality: 95050 bases at least O30		Insert size: 99058; sum-of-contigs	Quality coverage: 4.65x in Q20 bases; sum-of-contigs	NOTE: This is a 'working draft' sequence. It currently consists		25 contigs. The true order of the pieces is not known and their	order in this sequence record is arbitrary. Gaps between the	contigs are represented as runs N, but the exact sizes of the	are unknown. This record will be updated with the finished		as soon as it is available and the accession number will be	preserved	ı	23631 contig of		2	91
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82078: contig of 2933 bp in length

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	1 (bases 1 to 736)	Oy 1340 ttcctataagggtcacct
TITLE Th	Sim_Ji.L.C., 180,F.M. and ChOW,//L.K. The novel human HUEL gene (C4orl) encodes a protein that shares homelogy with the MAL-hinding domain of the YDE MA remain	DD 301 TTCCTATAAGGGTCACCT
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manner	and displays nuclear translocation in a cell cycle-dependent.	Db 361 ACCCTTAGTACTCTGCCC
	published	•
AUTHORS C	Chow, V.T.K., Sim, D.L.C. and Yeo, W.M.	Cy 14e0 agreccaggagacagaa
		Db 421 AGTGTCCAGGAGACAGAA
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FEATURES	Location/Qualifiers	
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1279 1399 1579 gatgaccccaccactcattggctaaaggatttgggggtctctcc 1339 1519 GCCGCATGGGTGCTGTGCCTGTGGTGCCTGCCCAGAGTCA 240 TCTAGCACAGAGGCCTGAGTCATGGGAAAGAGTCACACTCCTG 360 CCCACCTCTTTACTGTGGGAAAACCATCTCAGTAAGACCTA 420 480 i đ GATGACCCCACCACTCATTGGCTAAAGGATTTGGGGTCTCTCC 300 TATGAAGCCAGCTGCTGAAATTAGCTACTCACCAAGAGTGAGG 540 TGACCCCCACCCCAGTCTCTCCAGCCAGGCCCTGCCCTCACC 120 Gaps 9 :tctagcacagaggcctgagtcatgggaaagagtcacactcctg aggagaagaagtggatctggaattgggaggagcctccacc AGGAGAAGAAGAAGTGGATCTGGAATTGGGAAGGAGCCTCCACC tatgaagccagctgctgaaattagctactcaccaagagtgagg cerementedeceaceaceaceceaceceacecearesece gccgcatgggtgctgtgcctgtgatggtgcctgccagagtca ö Length 736; Indels PPATPWPSQAWCIDPHAQSLQPGPALTKTAH A repair protein's DNA-binding 9.6%; Score 717.4; DB 9; Pred. No. 5.3e-156, ACDGACPESSWLSGMMTPPLIG" gene product encoded by nBank Accession Number 161 t 0; Mismatches 165 g ě

Job time: 4324 sec	Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi, Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
Search completed: August 19, 2002, 16:13:11	WORDS Numan. KCE human. KRGANISM Homo sapiens
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Qy 1356 ctctagcacagaggcctgagtcatgggaaaggtcacactcctgaccttagtactctgc 1415	1457 ctaagtgt-ccaggagacagaaggagaagaggaagtggatctggaattgggaggagctc 1515
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Young, P.E., Augustus, M., Carter, K.C., Ebner, R., Endress, G. Horrigan, S., Soppet, D.R. and Weaver, Z. Cancer gene determination and therapeutic screening

Patent: WO 0194629-A 3354 13-DEC-2001

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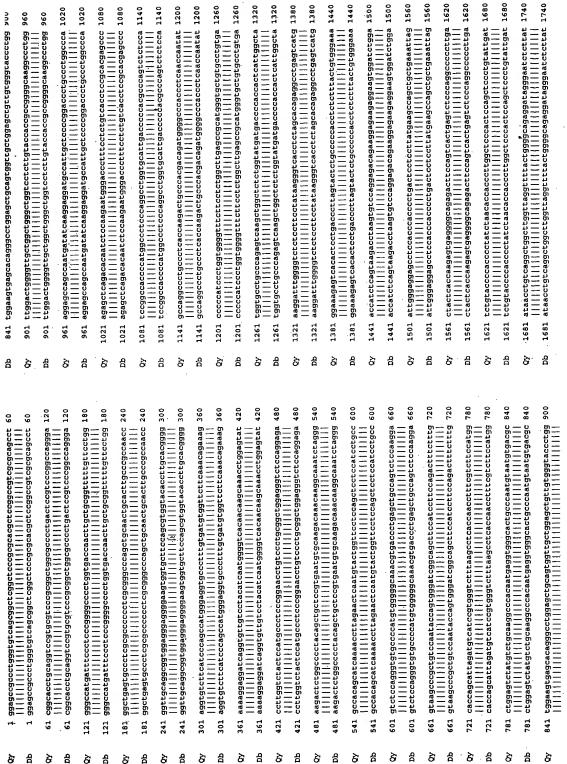
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ALIGNMENTS

RESULT 1

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healing and tissue repair; PRO317 can be used for treating problems of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Zollinger-Ellison syndrome, gastrointestinal ulceration and congenital
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         keratinocyte differentiation (e.g. psoriasis, epithelial cancers such as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               neuropathies or cancer. PRO265 can be used as for fibromodulin, e.g. for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 drugs. PRO533 may be used in the treatment of Usher Syndrome or Atrophia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               preservation and maintenance of gastrointestinal mucosa and the repair
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  lung squamous cell carcinoma of the vulva and gliomas), potent effects
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cell growth and development, diseases related to growth or survival of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             reducing dermal scarring. PRO264 can be used as a target for anti-tumor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      the kidney, uterus, endometrium, blood vessels, or related tissue, e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAXS2213-74 encode secreted and transmembrane human proteins, and are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                obtained from cDNA libraries, prepared from fetal lung, fetal kidney, fetal brain, fetal liver and fetal retina. The encoded polypeptides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              polypeptides and portions may have therapeutic applications in wound
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 e.g. PRO211 and PRO217 can be used for disorders associated with the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      nerve cells including Parkinson's disease, Alzheimer's disease, ALS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New isolated human genes and polypeptides used in, e.g. treatment of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     have specific uses based on their homology to known polypeptides,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%; Score 1813; * DB 20; Length 1813;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  areata; PRO269 can be used as an anti-thrombotic agent; PRO287
                                                                                                                                                                                                                                                                                                                                                                                                           Yuan J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             microvillus atrophy), skin diseases associated with abnormal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        of acute and chronic mucosal lesions (e.g. enterocolitis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
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                                                                                                                                                                                             abnormal keratinocyte differentiation; psoriasis; epithelial cancer;
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                                                                                                               Secreted protein; transmembrane protein; human; enterocolitis;
                                                                                                                                                                                                                      Parkinson's disease; Alzheimer's disease; ALS; neuropathy;
                                                                                                                                                                    congenital microvillus atrophy; skin disease; cell growth;
                                                                                                                                        Sollinger-Ellison syndrome; gastrointestinal ulceration;
                                                                                                                                                                                                                                                                              anti-thrombotic; wound healing; tissue repair; ss.
                                                          Protein PRO246 cDNA clone DNA35639-1172
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රි සි	1801 tttgtatgaaaa 1813 		overexpression being indicative of cancer. For therapeutic use, the Ab may be conjugated to a toxin, chemotherapeutic agent or radioisotope. Genes expressing (I), many of which are growth factor homologues, are overexpressed in some cases of cancer.
RESULT		× S	Sequence 1813 BP; 368 A; 559 C; 484 G; 402 T; 0 other;
2 1	AAX28436 ID AAX28436 standard; DNA, 1813 BP.	ě	, do 100 c
ž ž	AAX28436;	Best	Local Similarity 100.0%; Pred. No. 0; Local Similarity 100.0%; Pred. No. 0; Local Similarity 00.0%; Pred. No. 0; Local Similarity 100.0%; Pred. No. 0;
ž H	22-JUN-1999 (first entry)	6	•
ž E	EGF-like homologue PR0246 coding sequence	λΌ	1 ggagccgcctgggtgtcagcggttcggctccgcgcacgctccggccgtcgcgcct 60
ž ž	untibody; PRO187; PRO533; PRO214; PRO240; PRO211; PRO230; PRO261;	gg	1 ggagccgccctgggtgtcagcgctcggctcccgcgcacgctccggccgtcgcagcacct 60
PRO KW	PR0246; KW EBAP-2; inhibitor; tumour growth; cancer; EGF-like homologue; KW FGF-8 homologue; ss.	à i	
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3 \$	ייסווס מילקי בחסי	ò	121 gggccatgatttccctcccggggcccctggtgaccaacttgctgcgggtttttgttcctgg 180
NA X	W09914327-A2.	qq	
£ 2	25-MAR-1999.		
XX	10-SEP-1998; 98WO-US18824.	දි ද්	18 1990cgaqtgcccccgcgcgcccccaccagcagcagcaccagcaccagcag
ă a	26.NOV1007. 07119.0066840	3	תתנות מתונת בתונים בתונ
1 2 1		ò	241 ggttgcaggcggtggagggaagtggtgcttccagcgtggtacaccttgcacgggg 300
¥ %	17-SEF-1997; 970S-0059117. 18-SEP-1997; 97US-0059263.	С	241 ggttgcaggcggtggagggaagggaagtggtgcttccagcgtggtacaccttgcacgggg 300
g. 6	15-0CT-1997; 97US-0062125. 17-0CT-1997; 97US-0062285	à	301 aggigicticatocoagocatgggaggigcocitigigatgiggitoticaaacagaaag 360
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4 K	24-0C1-1997; 970S-0062816. 29-0C1-1997; 970S-0063704.	3	מתתנת נוננננננות המתונים המתחת המתונים המתחת התחונים המתחת התחונים המתחת התחונים המתחת המתחת המתחת המתחת המתחת
×	(GETH) GENEWTECH INC.	ò	
X. Z	Botstein D. Goddard A. Gurnev A. Hillan K. Lawrence DA;	g G	
i i i	d WI;	ò	421 ccttggtctactccatgccctccoggaacctgtccctgcgggctggagggtctccaggaga 480
1 15	WPI; 1999-229532/19.	g	421 cettggtetactecatgeeeteeeggaacetgteeetgegggegggggggggg
ž ž	P-PSDB; AAY05286.	à	481 aagactctggcccctacagctgctccgtgaatgtgcaagacaaacaa
122	Antibodies against specific proteins overexpressed in tumours	; <u>8</u>	
S S	Example 1; Fig 27; 130pp; English.	; ;	
¥ 8 8	This sequence encodes the EGF-like homologue PRO246. The invention relates to antibodies (Ab) that bind to any of the	දු දු	541 gccacagcaccanaccttagaactcaatgractggrectcaccactcuctcactgg. 541 gccacagcactcacttagaactcaatgtactggttcctccagctccacctcgcc 600
ខ្លួ	polypeptides (I) designated PRO187; PRO533; PRO214; PRO240; PRO211; PRO210; PRO261; PRO246 or EBAF-2. The Ab, or other agents that inhibit	ò	601 gtctccagggtgtgccccatgtgggggcaaacgtgaccctgagctgccagtctccaagga 660

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DR P-PSDB; AAX88574.	Db 1441 accatctcagtaagacctaagtgtccaggagacagaaggagaaggaag
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PI Goddard A, Gurney AL, Hillan KJ, Roy MA, Wood WI, Botstein D;	1381 ggaaagagreacacacacacacacacacacacacacacacacacacac
(GETH) GENENTECH INC.	Oy 1381 ggaaagagtcacactcctgaccttagtactctgccccactctcttactgtgggaaa 1440
PR 10-SEP-1998; 98US-0099803. PR 10-SEP-1998; 98WO-US18824.	1321 aaggatttggggteteteetteetataagggteaeetetageacagaggeetgagteatg
PF 08-SEP-1999; 99WO-US20594. XX	Oy 1321 aaggatttggggtctctcctataagggtcacctctagcacagaggcctgagtcatg 1380
AA PD 23-MAR-2000. XX	Db 1261 tggtgcctgcccagagtcaagctctctggtatgatgacccaccactattggcta 1320
PN W0200015666-A2.	Qy 1261 tggtgcctgcccagagtcaagctggctctctggtatgatgaccccaccactcattggcta 1320
OS Homo sapiens	Db 1201 ccccatcctggtggggtttcttcctctggcttgagccgcatgggtgctgtgcctgtga 1260
	Oy 1201 ccccatccctggtggggtttcttcttctggcttgagccgcatgggtgctgtgcctgtga 1260
KW PR0317; tumour growth inhibitor; cancer; diagnosis; treatment; human; KW cell growth; proliferation; cell surface virus receptor; ADEPT;	Db 1141 gccaggccctgccctcaccaagactgcccacgacagatggggcccacctcaaccaatat 1200
KW Antibody; PRO187, PRO533; PRO214, PRO240, PRO211, PRO230, PRO261, PRO246.	Oy 1141 gccaggcctgcctcaccaagattgccacgacagatggggcccacctcaacaatat 1200
DE Human PRO246 nucleotide sequence.	Db 1081 tecggecacceatggeetecagggeetggtgeattgaeececacgeceagteteteea 1140
DT 09-AUG-2000 (first entry)	Qy 1081 teeggecaccecatggectcceaggectggtgcattgaccccacgcccagtctctca 1140
XX AC AAA30052; vv	
AAA30052 ID AAA30052 standard; cDNA; 1813 BP.	Qy 1021 agageteagaeaeaetetecaagaatgggaecettecetetgteaeeteggaegee 1080
RESULT 3	
Db 1801 tttgtatgaaaaa 1813.	Qy 961 aggagccagccaatgatatcaaggaggatgccattgctccccggaccttgccctggccca 1020
Oy 1801 tttgtatgaaaa 1813	Qy 901 ttggatcgggttgccgggttgggtggtccctcgfatcacqcgcgggggaaggcctgg you
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PRO214; PRO240; PRO211; PRO230; PRO261;
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                                                                                                                                                                                                                                                                                                                                   diated prodrug therapy; ss.
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proliferation and growth cell neoplastic ŏ treatment 8; Fig 15; and diagnosis

English

200pp;

t 18 antibodies are used in the production of the antibodies. The antibodies and nucleic acids encoding them are used for diagnosing a tumour in a mammal. The antibodies are used for inhibiting the growth of tumour encoded by genes which are over expressed in the genome of tumour cells sequence represents a human PRO246 nucleotide sequence. PRO246 Vectors and host cells comprising the nucleic acid encoding the antibodies which bind to a polypeptide. The "PRO" polypeptides probably a cell surface virus receptor. The invention This PT diagn
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> and identifying compounds that inhibit a biological or immunological activity of and/or expression of a PRO187, PRO533, PRO214, PRO240, PRO211, PRO230, PRO261, PRO246 or PRO317 polypeptide. The antibody can conjugating the antibody to a prodrug-activating enzyme which converts ል (ADEPT) in antibody dependent enzyme mediated prodrug therapy

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ö an anti-cancer drug. The antibodies can be fluorescently and monitored by light microscopy, flow cytometry tumours prognosis of for diagnosis and labelled prodrug to fluorimetry

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other; 0 Ĥ 402 ö 484 ΰ 559 Ä 368 BP; Sequence 1813

Length 21; 100 Score 1813; Pred. No. 0; 100.0%; Query Match Best Local Similarity

Gaps ó Indels ö 0; Mismatches Conservative Matches 1813;

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                                                       Human secretory and transmembrane; PRO; mammalian; cancer; lung;
                                                                                                     cartilage; ear; proliferation; glucose; free fatty
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other PRO polypeptides, link bioactive molecules to cells expressing
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adipocyte; A-peptide; factor VIIA; gene therapy;
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skeletal muscle cells or by adipocytes; or inhibit binding of A-peptide proliferation or differentiation of chondrocytes, the proliferation or cartilage, the proliferation of inner ear utricular supporting cells or the PRO polypeptides may modulate glucose or free fatty acid uptake by to factor VIIA. The PRO polypeptides can be used in assays to identify molecules involved in binding interactions. The polynucleotides encoding colon, Some of the 275 sequences are also useful to stimulate the release of monocytes (PBMCs), or the proliferation of endothelial cells. Some of rectal, cervical or liver tumours by comparing PRO gene expression in pericyte cells, the release of proteoglycans from polypeptide expression in a cell sample to that in a control sample. PRO polypeptides can be used to generate probes, antisense RNA/DNA, of T-lymphocytes, the release of a cytokine from peripheral blood transgenic or knock out animals and can be used in gene therapy. PRO polypeptides, and to detect the presence of mammalian lung, tumour necrosis factor-alpha (TNF-alpha) from human blood, breast, prostate,

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Sequence 1813 BP; 368 A; 559 C; 484 G; 402 T; 0 other;

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240 480 gggccatgatttccctcccggggcccctggtgaccaacttgctgcgggtttttgttcctgg 180 180 240 ggttgcaggcggtggagggaagggaagtggtgcttccagcgtggtacaccttgcacgggg 300 ggttgcaggcggtggagggggaagtggtgcttccagcgtggtacaccttgcacgggg 300 360 420 480 120 eggeacetgeaggteegtgegteeegeggetggegeeetgaeteegteeeggeeagga 120 Gaps 9 9 ggetgagtgeeetegegeeeeetegeggeeeagetgeaactgeaettgeeegaaee gggccatgatttccctcccggggcccctggtgaccaacttgctgcggtttttgttcctgg ggotgagtgccotcgccccctcgcgggcccagotgcaactgcacttgcccgccaacc aggtgtcttcatcccagccatgggaggtgccctttgtgatgtggttcttcaaacagaaag aggtgtcttcatcccagccatgggaggtgccctttgtgatgtggttcttcaaacagaaag aaaaggaggatcaggtgttgtcctacatcaatggggtcacaacaagcaaacctggagtat cettggtetactecatgeeeteceggaacetgteeetgeggetggagggteteaggaga cettggtetactecatgeceteceggaacetgteetgeggetggagggtetecaggaga ggagecgeeetgggtgteagegeteggeteeggeaegeteeggeegtegegeageet ggagccgccctgggtgtcagcggctccggcgcacgctccggccgtcgcgcagcct cggcacctgcaggtccgtgcgtcccgcggctggccccctgactccgtcccggccaggga aaaaggaggatcaggtgttgtcctacatcaatggggtcacaacaagcaaacctggagtat Length 1813; ö Indels 22; ö 8 100.0%; Pred. No. 0; 0; Mismatches 100.0%; Score 1813; Matches 1813; Conservative Best Local Similarity Query Match 121 121 181 181 241 241 301 301 361 361 61 421 윱 ò 셤 ò 윱 ò 셤 ò 셤 ò 윱 à ક

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à	721	ccagcattagatgtcatccgtgggtctttaagcctcaccaacctttcgtcttccat	780
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à	781	ggagtctatgtctgcaaggcccacaatgaggtg	840
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δ	1021	agagetcagacacaaletccaagaatgggaceettteetetgteacetcegeaegageee	0
q	1021	agottcagacacaatottccaagaatgggaccetttcctotgtcacctccgcacgagco	108
à	1081	tocggccaccccatggcctccaggcctggtgattgaccccacgcccagtctctcca	114
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È	1141	gccaggccttgcctcaccaagactgcccacgacagatggggcccacctcaaccaatat	120
g	1141	ccaggccctgccctcaccaagactgcccacgacagatggggcccacctcaaccaat	-
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g	1201	ccccatccctggtggggtttcttcttctggcttgagccgcatgggtgctgtgctgtg	126
ò	1261	tggtgcctgcccagagtcaagctggctctctggtatgatgacc	132
g	1261	ggrgcctgcccagagtcaagctggctctctggtatgatgaccccaccactcattggct	132
8	1321	aaggatttggggtctctctctctataagggtcacctctagcacagaggcctgagtcatg	138

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PR 13-SEP-1999; 99WO-US21094. PR 15-SEP-1999; 99WO-US21090. PR 05-OVT-1999; 99WO-US21089. PR 29-NOV-1999; 99WO-US28114. PR 02-DEC-1999; 99WO-US28564. XX	DR WELL 2001-1015959. XX XX PT New antibody that binds to a RRO polypeptide, e.g. PRO187 and PR0533, PT useful for diagnosing and treating cancers - XX XX Claim 50, Fig 15, 196pp; English. XX CC The present invention relates to PRO proteins and coding sequences. The		Duery Match	Oy 61 cggcactgcaggtccgtgcgtccgcgggttggcgccctgactccgtcccggccaggga 120	<pre>Qy 121 gggccatgatttccctcccggggccctggtgaccaacttgctgcgggttttgttcctgg 180</pre>	0y 181 ggctgagtgcctcgcgcccctcgcgggcccagctgcaactgcacttgcccgccaacc 240	Oy 241 ggttgcaggcggtggagggagggagtgtctccagcgtggtacaccttgcacgggg 300
1380 1440 1440 1500 1500		1681 ataacctgtcaggcttggttaggtttactggggaagagagag	1801 tttgtatgaaaa 1813 	27-APR-2001 (first entry) PR0246 coding sequence.	Cytostatic; PRO protein; tumour; cancer; ss. Homo sapiens.	WO200105836-A1. 25-JAN-2001.	20-DEC-1999; 99WO-US30999. 20-JUL-1999; 99US-0144758. 26-JUL-1999; 99US-0145698. 08-SEP-1999; 99WO-US20594.

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301 aggtgtcttcatcccagccatgggaggtgccctttgtgatgtggttcttcaaacagaaag 360 Db 361 aaaaggaggtcacagtgttgtcctacatcaatggggtcacaacaagcaaacctggagtat 420 Qy	cottggccattcatgccctcggaactgfcctggggggggggg	541 gccacagcatcaaaaccttagaactcaatgtactggttcctccagctcctccatcctgcc 600 [661 gtaagccggctgtccaataccagtgggatcggcagcttccatccttccagacttcttg 720 [1][1][1][1][1][1][1][1][1][1][1][1][1][181 ctggagtctatgtctgcaaggccacaatgaggtggcactgcccaatgtaatgtgacgc 840	1 1 1 1 1 1 1 1 1 1	agagetcagacacaatetecaagaatgggaceettteetetgteaceteegeaggee 1080 	gctggtgcattgaccccacgccagtctctcca 1140 	1141 gccaggcctgcctcaccaagactgcccacgacagatggggcccaccctcaaccaatat 1200 KW

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PRO6309; cell death; genetic disorder; transgenic animal; gene therapy; PRO1183; PRO1272; PRO1419; PRO4999; PRO7170; PRO248; PRO353; PRO1318; PRO246; PRO265; PRO941; PRO10096; PRO6003; PRO6004; PRO350; PRO2630; PRO1600; PRO9940; PRO533; PRO301; PRO187; PRO337; PRO1411; PRO4356;

Homo sapiens

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22-MAY-2000; 2000WO-US14042

99US-0139695 99US-0145070 99US-0149396 99WO-US20111 99WO-US20594 20-JUL-1999; 01-SEP-1999; 15-JUN-1999; 26-JUL-1999; 17-AUG-1999 08-SEP-1999

99WO-US21090 99WO-US21547 99US-0169495 99WO-US28313 99WO-US28301 99WO-US28565 02-DEC-1999; 15-SEP-1999; 07-DEC-1999; 15-SEP-1999 30-NOV-1999 01-DEC-1999

2000WO-US05601. 2000WO-US00219 2000WO-US04341 2000WO-US04342 2000WO-US04414 2000WO-US05841 2000WO-US07377 2000WO-US08439 01-MAR-2000; 30-MAR-2000; 18-FEB-2000; 18-FEB-2000; 20-MAR-2000; 05-JAN-2000; 22-FEB-2000; 02-MAR-2000;

(GETH) GENENTECH INC.

2000WO-US13358

15-MAY-2000;

17-MAY-2000; 2000WO-US13705

Mather JP, Napier MA, Pan J; D, Watanabe CK, Williams PM; Goddard A; Eaton DL; Gerritsen ME, Desnoyers L, Botstein DA, Fong S, Gao W, Gerber H, Stewart TA, Tumas Godowski PJ, Gurney AL, Kljavin IJ, Ashkenazi AJ, Baker KP, Paoni NF, Roy MA, Zhang Z; Perrara N, Wood WI,

WPI; 2001-050091/06 P-PSDB; AAC87040.

transmembrane polypeptide is useful for gene therapy and identification Isolated nucleic acid molecule encoding a PRO polypeptide which is a of related polypeptides -

Claim 2, Fig 57; 244pp; English

analysing genetic disorders, and to produce transgenic animals which are ដូ colypeptide. The specification describes human polypeptides, designated PRO6004, PRO350, PRO2630 and PRO6309. The biological activity of cells PROJEG, PRO444, PRO183, PRO185, PRO210, PRO215, PRO217, PRO499, PRO7170, PRO365, PRO4161, PRO1308, PRO1170, can be modulated with agents that bind to these polypeptides, resulting polypeptides, as a hybridisation probe to screen libraries to isolate reagents. The polynucleotides can also be used in gene therapy e.g. PRO337, PRO1411, PRO4356, PRO246, PRO265, PRO941, PRO10096, PRO6003, homologous sequences, or to map the gene. They may also be used for useful for the development and screening of therapeutically useful PRO248, PRO353, PRO1318, PRO1600, PRO9940, PRO533, PRO301, PRO187, The present sequence encodes a human secreted and transmembrane in the death of the cells. The polynucleotides encoding these polypeptides are useful in the recombinant production of the replace a defective gene.

T; 0 other; Sequence 1813 BP; 368 A; 559 C; 484 G; 402 X X C C C C C C C C C C C C C C C C C X X

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	1261 tggtgcctgcccagagtcaagctggtctctggtatgatgacccccaccactcattggcta 1320
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XX	1141 gccaggcctgcctcaccagactgcccagacagatggggcccacctcaaccaatat 1200
XX DE Human PRO246 CDNA.	1081 tccggccaccccatggcctcccaggcctggtgcattgacccccacgcccagtctctcca 1140
	tccggccaccccatggcctcccaggcctggtgcattgaccccacgcccagtctctcca
XX AC AAF72379;	agagotcagacacaatotccaagaatgggaccettteetetgteaceteeggageee
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	601 gtctccagggtgtgccccatgtggggcaaacgtgaccttgagctgccagtctccaagga 660
Db 1441 accatctcagtaagacctaagtgtccaggagacaggagaaggagaaggagaagtggatctgga 1500	601 gtctccagggtgtgccccatgtgggggaaacgtgaccctgagctgccagtctccaagga 660
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(GETH) GENENTECH INC

Ä Gerritsen ME, Goddard Kljavin IJ; Ferrara N; Tumas D: Eaton DL, Stewart TA, Hillan KJ, ų Fong S, Gao W, Gerber H, Godowski PJ, Grimaldi CJ, Gurney AL, Mather JP, Pan J, Paoni NF, Roy MA, Desnoyers Botstein D, Williams PM, Wood WI; Ashkenazi AJ, Filvaroff E,

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WPI; 2001-081051/09 P-PSDB; AAB80219.

the treatment of skin diseases (e.g. psoriasis), cancers (e.g. lung nucleic acids encoding PRO polypeptides which are useful carcinoma) and neurodegenerative diseases (e.g. Alzheimer's disease) squamous cell Sixty one

Claim 2; Fig 16; 393pp; English.

useful for treating skin diseases (e.g. psoriasis), cancers (e.g. lung squamous cell carcinoma), gastrointestinal disorders (e.g. The PRO nucleic acids have applications in molecular biology, including secreted and transmembrane PRO polypeptides. The PRO polypeptides are present sequence is one of sixty one nucleic acids encoding novel enterocolitis), neurodegenerative diseases (e.g. Alzheimer's disease Parkinson's disease), wound repair, cardiovascular disorders (e.g. schaemia, atherosclerosis), inflammatory disorders (e.g. asthma, rheumatoid arthritis, multiple sclerosis), infertility, AIDS and use as hybridization probes, and in chromosome and gene mapping endometrial bleeding angiogenesis, ischaemias such as coronary diabetes and retinal disorders such as retinitis pigmentosum. The

Seguence 1813 BP; 368 A; 559 C; 484 G; 402 T; 0 other;

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		1261
		1201
XX KW Human; angiogenesis-assoc KW cardiac hypertrophy; carr	<pre>atggggccaccctcaaccatat 1200 [</pre>	QY 1141 gccaggccctgccctcaccaagactgcccacgacagatggggcccaccctcaaccaatat LIMITITITITITITITITITITITITITITITITITITI
	1140	Qy 1081 tcoggccacccatggcctcccaggcctggtgcattgaccccaacgcccatctccca
41 AC9	1080	Qy 1021 agagctcagacacaatctccaagaatggaccctttcctctgtcacctccgcacgagccc
Db 1801 tttgtatgaaaa 1813 PRSITT 8	1020	Oy 961 aggagccaatgatatcaaggaggatgcattgctcccggaccttgctctggcct

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ndard; cDNA; 1813 BP.

enesis-associated protein PRO246 cDNA, SEQ ID NO:95.

(first entry)

genesis-associated protein; PRO; endothelial cell growth;

se; psoriasis; endometriosis; ulcer; wound healing; cancer; rtrophy; cardiovascular disorder; endothelial disorder; nfarction, diabetic retinopathy; rheumatoid arthritis; disease; Huntington's disease; stroke; drug screening; isorder, atherosclerosis; osteoporosis; hypertension; '; transgenic animal; ss.

2000WO-US00219.

99US-0123957. 99US-0134287. 99WO-US12252. 99WO-US05028 99US-0141037

99US-0144758. 99US-0145698. 99WO-US20111 99WO-US20594 99WO-US23089. 99WO-US28313 99WO-US28409. 99WO-US28565.

99WO-US21547.

99WO-US21090.

AL, Hillan KJ, Kuo SS, Mark MR, Marsters SA, Watanabe CK, Williams PM, Wood WI; Goddard A; Gerber H, Ferrara N, Baker KP, Gurney AL, Pitti RM,

disorders, such as atherosclerosis, wounds or cancer isolated nucleic acid for producing a PRO polypeptide, genetic disorders and treating cardiovascular, endothelial angiogenic

37; 293pp; English Pig 58; Claim

ಡ designated PRO proteins (AABS3064-BS3097); and to nucleic acids encoding PRO proteins. The invention also relates to vectors and host cells particular tissue; treating a cardiovascular, endothelial or angiogenic ö angiogenic disorder, or a susceptibility to such a disorder by detecting agonist or antagonist; a retroviral gene therapy vector comprising mutations in a PRO gene, or the expression level of a PRO gene within disorder via the administration of a PRO protein, PRO nucleic acid, protein, PRO antibodies specific for a PRO protein, fusion proteins comprising a PRO protein, agonists or antagonists of a PRO protein, a compounds which inhibit the expression of a PRO gene. The invention expression or activity; diagnosing a cardiovascular, endothelial or comprising a PRO nucleic acid, the recombinant production of a PRO additionally encompasses methods of identifying modulators of PRO invention relates to novel human angiogenesis-associated

endometriosis, ulcers, wounds, cancer, Alzheimer's disease, Huntington's nucleic acid; and methods of inhibiting or stimulating endothelial screen libraries to isolate cDNAs with sequence identity to PRO PRO nucleic acids, PRO proteins, antibodies against PRO proteins, PRO diabetic retinopathy, rheumatoid arthritis, Crohn's disease, psoriasis, growth, cardiac hypertrophy or PRO-induced angiogenesis via the administration of a PRO protein, or an agonist or antagonist thereof disease, or stroke. PRO nucleic acids are additionally useful in the atherosclerosis, osteoporosis, myocardial infarction, hypertension, recombinant production of PRO proteins, as hybridisation probes to agonists and PRO antagonists may be used as therapeutic agents cardiovascular, endothelial or angiogenic disorders, such as

in gene therapy. PRO nucleic acids can also be used to produce transgenic ø therapeutic agents. The present sequence represents a cDNA encoding and to map genes encoding PRO proteins, to analyse genetic disorders, animals useful for the development and screening of potential

other; 0 Ë 402 ö 484 ΰ A; 559 Sequence 1813 BP; 368

the invention

protein of

Gaps ö 1813 Length Indels 22; ö 8 Pred. No. 0; Mismatches 100.0%; Score 1813; ; ; 100.0%; Conservative Local Similarity Matches 1813; Query Match

9 9 ggagccgcctgggtgtcagcggctcggcgcacacctccggccgtcggcgtcgcgcagcct н

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- 180 gggccatgatttccctcccggggcccctggtgaccaacttgctgcggtttttgttcctgg gggccatgatttccctcccggggcccctggtgaccaacttgctgcggtrtttgtccctgg 121 171 쇰 Š
- 240 9gctgagtgccctcgcgccccctcgcggggcccagctgcaactgcacttgcccgccaacc 181

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- 240 300 300 ggetgagtgecetegegedecectegegggeeeagetgeaactgeaettgeeegeeaace ggttgcaggcggtggagggaagtggtgcttccagcgtggtacaccttgcacgggg ggttgcaggcggtggagggaagtggtgcttccagcgtggtacaccttgcacgggg 181 241
- 360 420 420 aggtgtcttcatcccagccatgggaggtgcctttgtgatgtggttcttcaaacagaaag aaaaggagatcaggtgttgtcctacatcaatggggtcacaacaacagcaaacctggagtat aaaaggaggatcaggtgttgtcctacatcaatggggtcacaacaagcaaacctggagtat 301 361 361 301

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- 780 721 721 ઠ 셤
- 840 840 ctggagtctatgtctgcaaggcccacaatgaggtgggcactgcccaatgtaatgtgacgc ctggagtctatgtctgcaaggcccacaatgaggtgggcactgcccaatgtaatgtgacgc 781 781

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- 900 960 960 tggaagtgagcacagggcctggagctgcagtggttgctggtggagctgttgtgggtaccctgg 841 901 901

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1020 aggagccagccaatgatatcaaggaggatgccattgctccccggacctgccctggcca 961

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identify modulators (agonists and antagonists) of expression and activity. The antibodies and antagonists may also be used as therapeu		
as antigens in the production of antibodies against them and in assa		1801 tttgtatgaaaa 1813
used to study the expression and runction of sectority processes, polypeptides and their role in metabolism. The polypeptides may be u	grigititicatiigcaaatitaaataaagatacataaig 1800 (1741 taaaactaacatgaaatatgtgttgttttcat;
presence of similar nucleic acid sequences in samples. They may also		
sequences may also be used as DNA probes in diagnostic assays (e.g. polymerase chain reactions (PCR)) to detect and quantitate the	CC gttgttttcatttgcaaatttaaataaagatacataatg 1800 CC	1741 taaaactaacatgaaatatgtgttgtttcat
protein/membrane protein expression. The nucleic acids and complement	1740	
proteins they encode may be used in the prevention, treatment and	1740	1681 ataacctgtcaggcttggtttaggttttactggggcagaggatagggaatctcttat
sequences, which can be used in vaccines. The polymuricorare argumences and the	1680	1621 tetgtaceceaccetatetaacaceacettggeteceactecagetecetgtattgat
the production of antibodies directed against the proteins, and cDNI		
•	1680	
AAB88317 - AAB88419. Included in the invention are primers AAF93917 - AAF94295 and AAF62232 - AAF62235 which are used to isolo	1620	
This invention relates to nuclear acts sequences was a which encode human secretory or membrane proteins represented by	CC cagagacttccagtcactgagtctcccaggcccccttga 1620 CC	1561 ctactcaccaagagtgagggggaggacttcca
Claim 1; SEQ ID 83; 609pp + CD KOM; English.	1560	
לפווע נוועדשלא כד מס נמוועדשנים מוויסים וויסים וויס	1560	1501 attoggaggetecacccaccctgactect
Nucleic acids encoding secretory proteins/membrane proteins, useful	1500	
P-PSDB; AAB88358.	1500	1441 accatctcagtaagacctaagtgtccaggagacagaaggagagaagaggaagtggatctgga
WPI; 2001-093989/11.	ggaaagagtcacactcctgacccttagtactctgccccacctctttactgtgggaaa 1440 XX DR	1381 ggaaagagtcacactcctgacccttagtactct
ota T, Isogai T, Nishikawa T, Kawai Y, Sugiyama T, Hayashi K;		1381 ggaaagagtcacactcctgaccttagtactctgccccacctctcttactgtgggaaa
(HELI-) HELIX RES INST.	1380	1321 aaggatttggggteteteetteetataagggteaeetetageaeagggeetgagteatg
11-JAN-2000; 2000JP-0118775. 02-MAY-2000; 2000JP-0183766.	1380	1321 aaggatttggggtctctcctataagggtcacctctagcacagaggcctgagtcatg
	1320	1261 tggtgcctgcccagagtcaagctggctctctgg
07-JUL-2000; 2000EP-0114090.	1320	1261 tggtgcctgcccagagtcaagctggctctctgg
10-JAN-2001.	1260	1201 cccccatccctggtggggtttcttcctctggct
EP1067182-A2.		1201 cccccatccctggtggggtttcttcctctggct
Homo sapiens.		1141 gccaggccctgccctcaccagactgcccacga
Human; secretory protein; membrane protein; vaccine; gene therapy; rheumatoid arthritis; diabetes; ss.	gactgccacgacagatgggcccacctcaacaatat 1200 KW	gccaggccctgccctcaccaa
Human cDNA encoding a membrane or secretory protein clone PSEC0086.	1140	1081 tccggccaccccatggcctcccaggcctggtg
23-WAY-2001 (first entry)	ccaggcctggtgcattgaccccacgcccagtctctcca 1140 DT	
AAR93785;	1080	1021 agagctcagacacaatctccaagaatgggaccc
AAF93785 standard; cDNA; 1821 BP.	agaatgggaccettteetetgteaceteggacee 1080 ID	1021 agagctcagacacaatctccaagaatgggaccc
	72	

activity. The antibodies and antagonists may also be used as therapeutic

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a180 oolypeptides in samples (e.g. by enzyme linked immunosorbant assay (ELISA). Examples of diseases which may be treated include rheumatoid щау the The antibodies presence of activity. detecting the expression and agents for polypeptides in samples (e.g. by down regulate arthritis and diabetes diagnostic used as agents be use ន្តម្ភម្ភម្ភម្ភម្ភ

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other 0 Ë 405 :: C: 489 561 ä Sequence 1821 BP; 366

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Š	1561 ctactcaccaagagtgaggggaagagttccagtcactgagtctccaggccccttga 1620	×	
a		ខខ	The present invention provides the protein and coding sequences of a number of human shear stress response proteins. These are useful in the
ઠે	1621 tetalaceccaccetatetaacaccaccttqqttcccattccaqctccctqtattqat 1680	ខ្ល	diagnosis, treatment and screening of vascular diseases caused by arteriosclerosis, including heart failure, post-PTCA restenosis and
, a		ខ្ល	hypertension.
}		S	Sequence 1827 BP; 369 A; 559 C; 491 G; 408 T; 0 other;
à			
a	1692 ataacctgtcaggctggcttggttaggttttactggggcagaggatagggaatctcttat 1751	Be G	Query Match Best Local Similarity 99.8%; Pred. No. 0;
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RES	RESULT 10	g G	73 cggcacctgcaggtccgtgcgtcccgcggctggcgcccctgactccgtcccggccaggga 132
8	AAH02949 standard, DNA, 1827 BP.	ģ	121 gggccatgatttccctcccggggcccctggtgaccaacttgctgggtttttgttcctgg 180
1 2 1	AAH02949;	Д	133 gggccatgatttccctcccgggggcccctggtgaccaacttgctgcggtttttgttcctgg 192
ដ្ឋ	15-JJN-2001 (first entry)	Š	181 ggctgagtgcctcgcgccccctcgcgggcccagctgcaactgcacttgccgccaacc 240
X B X	Human shear stress-response coding sequence SEQ ID NO: 143.	셤	
≨ ž	Human; shear stress-response protein; vascular disease;	È	241 ggttgcaggcggtggagggaagtggtgcttccagcgtggtacaccttgcacgggg 300
žX	arteriogcierogis; d8	qq	253 ggttgcaggcggtggagggagggaagtggttccagcgtggtacaccttgcagggg 312
S X	Homo sapiens.	Š	301 addidicticateceadecatodoaqqtqeettiqtqatqtoqttetteaaacaqaaq 360
Z X	W0200125427-A1.	3 2	
1 2	12-APR-2001.	3	מַטַערטַרנינימברנינימקינימקטינימראַטַאַמּמּמּימָטּאַ ראַיניניניניטּיאַמּמּינימיטּאַמּמּמּמּימּאַמּמּמּאַ
XX PP	02-OCT-2000; 2000WO-JP06840.	ò	aaaaggaggatcaggtgttgtcctacatcaatggggtcacaacaagcaaacctggagtat
ž ž	01-OCT-1999; 99JP-0280976.	요	373 aaaaggaggatcaggtgttgtcctacatcaatggggtcacaacaagcaaacctggagtat 432
X &	XX OADOX OXXEH EMOXX (MOXX)	ò	421 ccttggtctactccatgccctcccggaacctgtccctgcgggctggagggtctccaggaga 480
63	(NOJI/) NOJIMA H.	gg	433 ctttggtctactccatgcctcccggaacctgtccctgcggctggagggtctccaggaga 492
a E	Nojima H, Yoshisue H, Obayashi M, Ota T, Kawabata A, Sakurada K;	à	481 aagactctggccctacagctgctccgtgaatgtgcaagacaaacaa
ž ž		qq	493 aagactettggeeeeetacagetgeteegtgaatgtgeaagacaaacaaggeaaatetaggg 552
18	FII 2001-2000/0/2/. P-PSDB; AAB90818.	ò	541 gecacageatcaaaacettagaactcaatgtactggttectecagetectecatectgee 600
1 2 2		, q	553 gccacagcatcaaaaccttagaactcaatgtactggttcctccagctcctccatcctgcc 612
2 2	useful in diagnosis and treatment of vascular disease caused by arteriosclerosis -	à	601 gtctccagggtgtgccccatgtgggggcaaacgtgaccctgagctgccagtctccaagga 660

Claim 1; Page 595-599; 678pp; Japanese

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	/*tag= c /product= "Mature human protein with hydrophobic domain"	EE	1441	ò
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	sig_peptide 134223 /*tag= b	T. F.	y 1381 ggaaagagtcacactcctgacccttagtactctgccccactctctttactgtgggaa 1440	ò
	/product = "Human protein having hydrophobic domain" /notes "CDS is specifically is claimed in claim 3"	: E E	1333	g
	CDS 134.1306	EE	y 1321 aaggatttggggtctctcctataagggtcacctctagcacagaggcctgagtcatg 1380	È
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	1573 ctactcaccaagagtgagggggagacttccagtcactgagtctcccaggccccttga 1632	<u>а</u>	סיט קוממקירונקירונממומרמרומקיקטאמאייניייימיייייט קיימייייי אוממקייייט איימיייייט איימייייט איימייייט איימייייט	3 (
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FR 28-DEC-2000; 2000MO-1/03559. KX PO 06-TAN-2000: 2000TD-000058.	0y 61	eggcacctgcaggtccgtgcgtccgcggggtggcgccctgactccgtcccggccaggga 120
06-JAN-2000;	69 qa	cggcacctgcaggtccgtgcgtgcggctggcgccctgactccgtcccggccaggga 128
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	Qy 181	ggetgagtgecetegegececetegeggeceagetgeaattgeaettgecegecaace 240
FI Kato S, Kimura T;	Db 189	ggctgagtgcctcgcgcccccccccgggcccagctgcaactgcacttgccggccaacc 248
AA WPI; 2001-418355/44. DR P-PSDB; AAB06610.	241	
Human proteins with hydrophobic domains and the nucleic a	243	
PT them, useful for preventing diagnosing and treating e.g. cancer, PT Alzheimer's and inflammation -	Qy 301	aggtgtcttcatcccagccatgggaggtgccctttgtgatggttgttcttcaaacagaaag 360
XX PS Claim 4; Page 486-489; 563pp; English.	309 gg	aggtgtetteateecageeatgggaggtgeeetttgtgatgttgttetteaaaeagaaag 368
when we are a consistent of the second of th	Qy 361	aaaaggaggatcaggtgttgtcctacatcaatggggtcacaaacaa
cDNA clone HP10801. The polynucleotide and polypeptide of t	DP 369	
cc may be used in the prevention, diagnosis and treatment of diseases CC associated with inappropriate polypeptide expression. The	Qy 421	cettggtetaetecatgeceteceggaacetgtecetgeggetggagggtetecaggaga 480
polynucleotides CC may be used to produce the polypeptide, by inserting the nucleic acids	Db 429	cettagtetacteatgccetccagaacetgtccetgagggetctcaggaga 488
into a host cell and culturing the cell to express the protein.		
CC polymucleotides and its complementary sequences may also be used as DNA CC probes in diagnostic assays and also used in gene therapy. The	Qy 481	aagactctggccctacagctgctccgtgaatgtgcaagacaaacaa
CC polypeptides may also be used as antigens in the production of	DD 489	aagactctggcccctacagctgctccgtgaatgtgcaagacaaacaa
n assays to identify modulators of polypeptide expr	Qy 541	gccacagcatcaaaaccttagaactcaatgtactggttcctccagctcctccatcctgcc 600
CC activity. The polypeptides and nucleic acids may be used as nutritional	7h 549	
modulate immune stimulation or suppression (e.g. for the treat		
CC microbial infections and autoimmune disorders such as multiple sclerosis,	Øy 601	
CC rheumatond arthritis and insulin-dependent diabetes), to modulate	DP 609	gtctccagggtgtgtcccatgtgggggcaaacgtgaccctgagctgccagtctccaagga 668
CC treatment of Parkinson's disease, Huntington's disease and Alzheimer's	Qy 661	gtaagcccgctgtccaataccagtgggatcggcagcttccatccttccagactttcttt
ct. disease, to modulate activin and inhibin activity (e.g. for controlling CC fertility), to modulate chemotactic and chemokinetic activity, to	DP 669	
CC modulate haemostatic and thrombolytic activity, to modulate receptor CC ligand activity, to modulate inflammation and to inhibit tumour growth.	Qy 721	caccagcattagatgtcatccgtgggtctttaagcctcaccaacctttcgtcttccatgg 780
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Query Match 99.5%; Score 1804.8; DB 22; Length 1816; Best Local Similarity 99.9%; Pred. No. 0; Matches 1806: Conservative O. Mismatches 2: Indels O. Cans	OY 781 O	ctggagtctatgtctgcaaggccacaatgaggtgggcactgccaatgtaatgtgacgc 840
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968 QY 1020 Db 1028 RESUI 1080 AAA23 1088 XX 1140 XX 1140 XX 1148 XX 11200 XX 1200 XX 1260 XX 1260 XX 1260 XX 1268 XX 1320 FT 13328 FT	WO200011015-A1. 02-MAR-2000. 24-AUG-1999; 99WG-US19351. 24-AUG-1998; 98US-0097638. 28-SEP-1998; 98US-0097659. 28-SEP-1998; 98US-0102092. 25-MUV-1998; 98US-0110978. 23-DEC-1998; 98US-0113646. 23-AUG-1999; 99US-0113646.
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(AAY94981-Y95020 proteins of the invention include those that are thought to be only invention may exhibit one or more activities selected from proteins. The proteins of The invention relates to 40 human secreted proteins (AAY94981-Y95 and cDNA sequences encoding them (AAA23423-A23462). The secreted partially secreted, i.e., transmembrane 88883

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the activin/inhibin activity; chemotactic/chemokinetic activity; haemostatic ä ulcers, osteoporosis, osteoarthritis, periodontal diseases, Alzheimer's rheumatoid arthritis; pulmonary inflammation; Guillain-Barre syndrome; inhibition activity. The proteins may be administered to patients as asthma and anaemia. They may also be used for treating wounds, burns regime. Diseases or conditions that may be treated using the proteins insulin dependent diabetes mellitus; and allergic reactions such as vaccines, and the nucleotides may be used as part of a gene therapy lateral sclerosis (ALS). Proteins with activin/inhibin activity may diagnostic primers and probes. The present sequence represents CDNA disorders; haemophilia; cardiovascular diseases; cancer; bacterial, additionally be useful as contraceptives. Nucleic acid sequences of disease, Parkinson's disease, Huntington's disease and amyotrophic and thrombolytic activity; anti-inflammatory activity; and tumour nucleotides of the invention include autoimmune diseases; genetic fungal and viral infections, especially HIV; multiple sclerosis; invention may be used in chromosome mapping, and as a source of modulation; haematopoiesis regulation; tissue growth activity; cytokine activity; cell proliferation; differentiation; immune

0 other; G; 405 T; C; 490 BP; 498 A; 561 Sequence 1954

encoding one of the 40 proteins of

Gaps .. Length Indels ö В 0; Mismatches Score 1802; Pred. No. 0; 99.94; 99.48; Conservative Best Local Similarity Matches 1813; Query Match

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evaluation of therapies for atherosclerosis including stroke, myocardial
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                                                                                                                      useful in diagnosis, prognosis, treatment, prevention, selection and
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                                                                                                      more known atherosclerosis-associated genes in a subject.
encoded by the genes. Expression vectors
                                                                                                                                                                                                  atherosclerosis-associated genes of the invention
                                                        polynucleotides are useful
                                          purifying ligands which specifically bind to
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                                                                                             1743
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	TELEX: (703)003-4103
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Rockville,	Rockville, Maryland 20850, USA Fax : (1) 301 610 8371	Db 403 AGTCATGGGAAAGAGTCACACT	AGTCATGGGAAAGACTCACACTCCTGACCCTTAGTACTCTGCCCCCCACCTCTTTACTG 344
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253 tggaggaagtggtgcttccagcgtggtacaccttgcacgggaagtgtcttcat 312 	è a	7358 LTI_NPLOO6_PL2 Homo sapie e, mRNA sequence. 7358 7358.1 GI:12881364
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human.	Oy 311 atcccagccatgggaggtgccctttgtgatgtggttcttcaaacagaaagaa
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Rockville, Maryland 20850, USA Fax : (1) 301 610 8371 Email : fliang@lifetech.com URL :	980 IGICCAAIACCAGGGAICGGCAGCIICCAICCIICCAGACIIICIII
http://fulllength.invitrogen.com" BASE COUNT 196 a 304 c 302 g 229 t 14 others ORIGIN	Oy 731 agaigtcatccgtgggtcttaagcctcaccaaccttcgtcttccatggctggagtcta 790
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Oy 11 tgggtgtcagcggtcccgcgcacgctccggccgtcgcgcagctcggcacctgc 70	Db 840 CACAGGCCTGGAGCTGCAGTTGTTGCTGGAGCTGTTGTGGGTA-CCTGGTTGGACTGGG 898

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JOURNAL	Unpublished (2001)			
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Gaps

Length 986; Indels 2;

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9; Mismatches

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Query Match Best Local Matches 96

Score 947.6; DB 9; Pred. No. 1.1e-213;

52.3%; 98.1%;

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KEYWORDS

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REPERENCE

Full-length cDNA libraries and normalization Li, W.B., Gruber, C., Jessee, J. and Polayes, D.

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http://fullength.invitrogen.com" BASE COUNT 207 a 247 c 300 g 200 t 1 others ORIGIN	<pre>Qy 1518 cccacccctgactcctcttatgaagccagctgctgaaattagctactcaccaagagtga 1577 </pre>
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No 1698 cttggttaggttttactggggcagaggatagggaatctcttattaaaactaacatg 1753	Db 970 AGGT-GGCACTCCCCAAT	gtaatgtgacgct-gaartgagcaca-ggcctggagctgcag 914
Db 56 CTTGGTTAGGTTTTACTGGGGCAGAGGAATCTCTTATTAAAACTAGT 1	Oy 871 tggttgctggagctgttgt	tggttgctggagctgttgtgggtaccctggttggactggggttgctggctg
	DI 111111111111111111111111111111111111	-GGTACCCTGGTTGAACTGGGGTTGCTGGCT
3BSULT 8 \L573957/c	Oy 931 tcttgtaccaccgccggg	cttgtaccaccgccggggcaaggcctggaggagccagcca
GOCUS ALS73957 1026 bp mRNA linear EST	DP 854 TCTTGTACCACGCCGGG	
DEFINITION ALS73957 LTI_NFL006_PL2 Homo sapiens cDNA clone CS0DI053YD20 3		
prime, mRNA sequence.	Qy 991 ccattgctccccggaccc	ccattgctccccggaccctgccctggcccaagagctcagacacaatctccaagaatggga 1050
	Db 794 CCATTGCTCCCGGACCC	CCATTGCTCCCCGGACCCTGCCCTGGCCCAAGAGCTCAGAACAAAAAAAA
KEYWORDS EST.	Ov 1051 ceettteeteteteacet	cogcacgageetecoaccacccatddeeteccaggeetg 1110
ORGANISM Homo sapiens		
Bukaryota; Metazoa; Chordata; Cr	Db 734 CCCTTTCCTCTGTCACCT	CCGCACGAGCCCTCCGGCCACCCCATGGCCCTCCCAGGCCTG 675
Mammalia; Eutheria; Primates; Catarrhin; Hominidae; Homo. REPERENCE 1 (bases 1 to 1026)	Qy 1111 gtgcattgaccccacgc	ccagtctctccagccaggccctgccctcaccaagactgccca 1170
Li, W.B., Gruber, C., Jessee, J. a	į	
	Db 674 Grecarreacccccace	
COURNAL Unpublished (2001)	1171	caacaqatqqqqcccaccctcaaccaatatccccatccctggtggggttcttcttcctg
	Db 614 CGACAGATGGGGCCCACC	CTCAACCAATAICCCCCAICCCIGGIGGGGITICTICCICIG 555
Email: segref@genoscope.		1000 コンプログラン・コングログラン・コンプログラン・コンプログラン・コンプログラン・コンプログラン・コンプログラン・コンプログラン・コンプログラン・コンプログラン・コンプログラン・コングログラン・コンプログラン・コンプログラン・コングログラン・コングログラン・コングログログラン・コンログログログログログログログログログログログログログログログログログログログ
	Wy 1231 gertgageegeatgggtg	
Source I Local Corquitation	DD 554 GCTTGAGCCGCATGGGTC	GCTTGAGCCGCATGGGTGCTGTGCCTGTGATGGTGCCTGCC
/db_xref="taxon:9606"		
/clone="CS0DI053YD20"	Qy 1291 tggtatgatgaccccacc	tggtatgatgaccccaccactcattggctaaaggatttggggtctctccctcc
/clone_lib="bil_NFU006_PLZ" /tissue_type="placenta"	Db · 494 TGGTATGATGACCCCACC	TGGTATGATGACCCCACCACTCATTGGCTAAAGGATTTGGGGTCTCTCCTTCCT
NotI; 1st strand	1	
was primed with a NotI-oligo (dr) primer. Five prime end	Qy 1351 gtcacctctagcacagag	gtcacctctagcacagaggcctgagtcatgggaaagagtcacactcccgacccttagtac 1410
enficted, gombie-stranged conw was digested with Not I and closed into the Not I and Eco RV sites of the pCMVSPORT 6	Db 434 GTCACCTCTAGCACAGAC	GTCACCTCTAGCACAGAGGCCTGAGTCATGGGAAAGAGTCACACTCCTGACCCTTAGTAC 375
vector. Library was normalized. Library was constructed by		
Life Technologies. Contact : Feng Liang Life Technologies, Advision of Taultrocen soon Medical Center Drive	Oy 1411 tetgeeceeacetetett	totgococcacotototttactgtgggaaaaccatotcagtaagacctaagrgtccagga 14/0
٠-	Db 374 TCTGCCCCCACCTCTT	TACTGTGGGAAAACCATCTCAGTAAGACCTAAGTGTCCAGGA 315
Email : fliang@lifetech.com URL :		17. 17.00 17.00 10
llength.invitrogen.com"	Uy 14 /1. gacagaaggagagagagagaga	gacagaaggaagaaggaag cggacccggaaacceggaacceggaagcaagaagcaagaagcaacccaacccaacccaacccaacccaacccaacccaacccaacccaac
BASE COUNT 238 a 249 C 31/ g 218 T 4 OLDERS ORIGIN	DD 314 GACAGAAGGAGAAGAGG	GACAGAAGAGAAGAAGGGAACTCTGGAATTGGGAGCCTCCACCCAC
	Ov 1531 cetecttatgaagecage	ceteettatgaagecagetgetgaaattagetaeteaceaagagtgaggggaggaett 1590
Query Match 51.7%; Score 937.2; DB 9; Length 1026;		
Best Local Similarity 97.7%; Pred. No. 3.2e-211; Matches 1010: Conservative 4: Mismatches 12: Indels 8: Gabs	Db 254. CCTCCTTATGAAGCCAGG	CCTCCTTATGAAGCCAGCTGCTGAAATTAGCTACTCACCAAGAGTGAGGGGAGAGCTT 195
	Qy 1591 ccagtcactgagtctccc	
catggctgg	Db. 194 CCAGTCACTGAGTCTCC	194 CCAGTCACTGAGTCTCCCCAGGCCCCCTTGATCTGTACCCCCACCCTATCTAACACCACCC. 135
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6606t	-CTCGG(72 ggtccgfgcgfcccgcggctggcgccctgactccgfcccgggcagggagggcatgatt	Db 60 GGTCCGTCGGCGGCTGGCGCCCTGACTCCGTCCGGCCGGGCAGAGGGCCATGATT 119 Qy 132 tcctcccggggcccctggtgaccaacttgctgcggtttttgttcctgggggctgagtgcc 191	Db 120 rccrcccgagaccccragrancharcracracagrarrrarrccragagcranaracc 179			240 GTGGAGGGAGGGAAGTGGTGCTTCCAGCGTGGTACACCTTGCACGGGGAGGTGTTTCA	ON 11 COCCAGOREGGGGGGCCCCCGGGGGGGGGGGGGGGGGGGGGGGGG	Oy 372 caggtgttgtcctacatcaatgaggtcacaacaagcaaacctggagtatccttggtctac 431	432 tccatgccttcccggaacctgtccctgcggctggagggtctccaggagaaagactctggc		Oy 492 ccctacagctgctcgtgaatgtgcaagacaaacaaggcaaatctaggggccacagcatc 551	Oy 552 amaaccttagaactcaatgtactggttcctccagctcctccatcctgccgtctcccagggt 611	Db 540 AAAACCTTAGAACTCAAIGTACTGGTTCCTCCAGCTCCTCCATCCTGCCGTCTCCAGGGT 599	Qy 612 gtgccccatgtggggcaaacgtgaccttgagctgccgtt 671 Dy 600 gtgccccatgtgggggcaaacgaacaacaaccaaccaacc	672 gtccattaccagtgggatgggcagcttccatcttccagacttctttgcaccagcatta	Db 660 GICCAAIACCAGGAICGGCAGCTICCAICCTICCAGACTTTCTTTGCACCAGTTA 719	<pre>Qy 732 gatgtcatcogtgggtctttaagcctcaccaacctttcgtcttccatggctggagtctat 791 </pre>	Oy 792 gtctgcaaggcccacaatgaggtgggcactgcccaafgtaatgtgacgctggaagtgagc 851
. Q. , 1651 ttggctcccactccagctccctgtattgatataactgtcaggctggct	Oy 1711 tactggggcagaggatagggaatctcttattaaaactaacatgaaatatgtgttttc 1770	GAATC	<pre>Qy 1771 attgcaaatttaa 1784 </pre>		RESOLAT 9 AL548482 LOCUS AL548482 969 bp mRNA linear EST	16-FEB-2001 DEFINITION AL548482 LII_NFL006_PL2 Homo sapiens cDNA clone CSODI014YD08 5 prime, mRNA sequence. ACCESSION AL548402	S	SOURCE human. ORGANISM Homo sapiens Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo. REPERENCE 1 (bases 1 to 969) AUTHORS Li, M.B., Gruber, C., Jessee, J. and Polayes, D. minte Bull lanch Anna libraries and normalization	unpublished (2001) Contact: Genoscope	x - France.cns.fr	Cocation/Qualifiers 1969 ns"	/db_xref="taxon:9606" /clone="cgonglayDog" /clone 15b=171 NP1006 P12"	/Lissue_type="placenta" /note="Vector: pCW/SPORT 6; Site 1: NotI; 1st strand cDNA	11 0 2	vector. Library was normalized. Library was contructed by Life Technologies. Contact : Feng Liang Life Technologies.	a division of Invirrogen 9800 Medical Center Drive Rockville, Maryland 20850, USA Fax: (1) 301 610 8371 Equal: 1 - 61400001 feach on IDT.	http://fulllength.invitrogen.com" BASE COUNT 177 a 289 c 293 g 208 t 2 others ORIGIN	Query Match 50.3%; Score 911.6; DB 9; Length 969; Best Local Similarity 98.6%; Pred. No. 3.7e-205; Matches 960; Conservative 2; Mismatches 7; Indels 5; Gaps

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Bukaryota; Metazoa; Chordata;

Homo sapiens

ORGANISM

human. EST.

KEYWORDS VERSION

SOURCE

Li,W.B., Gruber, C.,

Unpublished (2001) Contact: Genoscope

JOURNAL

TITLE COMMENT

(bases 1 to 973)

REPERENCE AUTHORS

ALS49049 LTI_NFL006_PL2

AL549049

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RESULT

AL549049

LOCUS

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16-FEB-2001 DEFINITION prime, mRNA sequence

GI:12884656

ALS49049.1

ALS49049

ACCESSION

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Email : fliang@lifetech.com URL : http://fulllength.invitrogen.com"

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/tissue_type="placenta"

'organism="Homo sapiens"

db_xref="taxon:9606" /clone="CS0DI042YA17" Pred.

Conservative

Best Local Similarity

Matches 965; Query Match

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50.0%; 98.6%;

913 tgctggctggctggtctttgtaccaccgccgggcaaggcctggaggaccagcca 972 	977	
973 atgatatcaaggaggatgc 991 	Db 918 CTGGAGCTGCAGTGGTAGCT Qy 919 ctgggctggtcctcttgtac	CTGGAGCTGCAGTGGTRGCTGGAGCTGTTGT-GGTACCCTGGTTGGACTGGGGGGTGCTGG 860 Ctgggctggtcctcttgtaccaccgccggggaaagccttggaggagccagcaatgata 978
ALS76327 978 bp mRNA linear EST	. 859 979	
6327 LTI_NPL006_PL2 Homo sapi e, mRNA sequence. 6327 6327.1 GI:12938362	Db	TCAAGGAGGATGCCATTGCTCTCCCGGACCCTGGCCCAGAGGCTCAGACACAATC 740 tccaagaatgggacctttcctctgtcacctccgcacgacaccccatggc 1097 :
FST	Qy 1098 cctcccaggcctggtgcati	cotcocaggcotggtgcattgaccccacgoccagtototocagccaggcotgcootca 1157
Mammalas, Eutherlas, Primates, Catarrhini, Hominidae, Homo. 1 (bases 1 to 70.) 11, W.B., Gruber, C., Jessee, J. and Polayes, D. Pull-length cDNA libraries and normalization	Oy 1158 ccaagactgcccacgacag 	ccaagactgcccacgacagatggggcccaccctcaatatccccatccctggtggg 1217
onal de Sequencage France	Oy 1218 gtttetteeteggettgae 	gtttcttcctctggcttgagccgcatgggtgctgtgcctgtgatggtgcctgcc
Emall: sequeregenoscope.cns.rr, web : www.genoscope.cns.rr.	Qy 1278 caagetggetetetggtat;	caagctggttctctggtatgatgacccaccattggttaaaggatttggggtttt 1337
;	Oy 1338 ccttcctataagggtcacci	cettectataagggteacetetageacagaggeetgagteatgggaaagagteacaetee 1397
/note="Vector: pGMVSPORT 6; Site_1: Not1; let strand cDNA was primed with a Not1-oligo(dT) primer. Five prime end enriched, double-stranded cDNA was digested with Not I and cloned into the Not I and Eco RV sites of the pGMVSPORT 6	Oy 1398 tgaccettagtactetged 	398 tgaccettagtactetgececeacetetettaetgtgggaaaaceateteagtaagace 1457
vector. Library was normalized. Library was constructed by Life Technologies. Contact : Feng Ling Tang Life Technologies, a division of Invitrogen 9800 Medical Center Drive. Rockville, Maryland 20850, USA Fax : (1) 301 610 8371	Qy 1458 taagtgtccaggagacaga: 	taagtgtccaggagacagaaggagaagaggaagtggatctggaattgggaggctcca 1517
<pre>small : Illang@alimetech.com URL : http://fulllength.invitrogen.com" BASE COUNT 219 a 248 c 297 g 204 t 10 others ORIGIN</pre>	Oy 1518 cccaccctgactcctccttatgase	cccacccctgactcctcttatgaagccagctgctgaaattagctactcaccaagagtga 1577
896; DB 9; Length 978; No. 1.8e-201; matches 15; Indels 4; Ga	1578	
799 aggcccacaatgaggtgggcatgcccaatgtaatgtgacgtgggaagtgagcacagggc 858 	Db 140 TCTAACACCACCCTTGGCT	TCTAACACCACCCTTGGCTCCCACTCCAGCTCCCTGTATTGATATAAACTGTCAGGCTGG 81

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Mammalia; Eutheria, Primates; Catarrhini; Hominidae; Homo
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/db_xref="taxon:9606" clone="CS0DI031YI09"

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AL546335

ACCESSION

VERSION

16-PBB-2001 DEFINITION

RESULT 14

ALS46335

LOCUS

human.

KEYWORDS

SOURCE

ORGANISM

AUTHORS JOURNAL

TITLE

COMMENT

REFERENCE

Matches 930; Query Match

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	Oy O	Journal Completed: August 19, 2002, 15:31:47 Job time: 1850 sec
**RESULT 15 **LOCUS 16-PEB-201 **DEPINITION ALS54790 **DEPINITION ALS54790 LIT_NPLOOG PL2 Homo sapiens CDNA clone CSODIO86YJ14 5 **TENTION ALS54790 LIT_NPLOOG PL2 Homo sapiens CDNA clone CSODIO86YJ14 5 **TENTION ALS54790 LIT_NPLOOG PL2 Homo sapiens CDNA clone CSODIO86YJ14 5 **TENTION ALS54790 LIT_NPLOOG PL2 Homo sapiens CDNA clone CSODIO86YJ14 5 **TENTION ALS54790 LIT_NPLOOG PL2 Homo sapiens CDNA clone CSODIO86YJ14 5 **TENTION ALS54790 LIT_NPLOOG PL2 HOMO SAPIENS **TENTION ALS54790 LIT_NPLO	Puraryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Malbeatia; Primates; Catarrhini; Hominidae; Homo. 11. (Mases I to 999) Pull-length CDNA ilbraries and normalization Contact: Genoscope BP 191 91006 EVRY cedex - France Location Corner	TTTTTTTTTTTTTTT

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Title: Perfect score: Sequence:	US-09-902-759-39 2012 : MISLEGELVINLLRFLFLGLSRMGAVEVMVFAQSQAGSLV 390
Scoring table:	BLOSUM62 Gapop 10.0 , Gapext 0.5
Searched:	747574 segs, 111073796 residues
Total number of	inits satisfying chosen parameters: 747574
Minimum DB seq Maximum DB seq	seq length: 0 seq length: 200000000
Post-processing:	9: Minimum Match 0% Maximum Match 100% Listing first 45 summaries
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SUMMAKIES

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Result No.	Score	Query Match	Length	90	· A	Description
			. !	1		
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7	2012	100.0	390	20	AAY13351	Amino acid sequenc
m	2012	100.0	390	20	AAY05286	EGF-like homologue
4	2012	100.0	390	21	AAY88574	Human PRO246 amino
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7	2012		390	55	AAB88358	membran
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21	1581		321	22	ABB11937	
22	1581	78.6	321	22	AAM40551	polypeptide
23	1579	78.5	325	.27	AAY95024	υ
24	1399	69.5	394	22	AAB65910	
25	1397	69.4	394	22	AAB65840	INTERCEPT
56	3	69.4	394	22	AAB65908	secreted
27	m	69.3	394	22	AAB65911	secreted
28	1393	ě	394	22	AAB65909	secret
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35	965.5		21	20	AAY25748	secreted pr
36	83	44.2	177	22	AAB65867	INTERCEPT 2
37	833.5	41.4	4	22	AAB65843	Murine INTERCEPT 2
38	833	•	172	22	AAM38765	
39	577	28.7	182	22	AAE05354	Mouse 10.3 kDa pro
40	467.5		12	22	AAB65846	Murine INTERCEPT 2
41	436	21.7	127	21	AAY95025	Human clone vc51_1
42	400.5	19.9		22	AAB65837	Murine INTERCEPT 2
43	~	19.9	æ	22	m	Murine INTERCEPT 2
44	367.5		N	22		
45	- 1	18.0	376	19	AAW57213	Mouse coxsackievir
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					AT. T.CHMINITE	· · · · · · · · · · · · · · · · · · ·
					ALT Grant	015

RESULT 1 AAY27096 ID AAY27096 standard; Protein; 390 AA.

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can be expressed by standard recombinant methodology. ACVRP can be used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     for treating and/or preventing cancer, a viral disorder or inflammation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              through the administration of a vector expressing a polynucleotide which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       is fully complementary to the present sequence. Polynucleotides encoding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  genomic sequence and detect differences in the chromosomal location in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               heterologous sequence to produce a fusion protein which can be used to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   screen peptide libraries for inhibitors of ACVRP activity and to screen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NCVRP can be used for diagnostic purposes to quantitate ACVRP expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                used to distinguish between the absence, presence and excess expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         vectors which encode ACVRP can be used to deliver nucleotide sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACVRP by blocking transcription of the mRNA, modulating ACVRP activity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      polynucleotides to treat conditions associated with overexpression of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Hybridisation probes can be used for mapping the naturally occurring
                                                                                                                                                                                                                                       Viral receptor protein; ACVRP; cancer; viral disorder; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This represents a human viral receptor protein (ACVRP). The protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    for novel antiprotozoal and antifungal therapeutics. The expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              normal, carrier or affected individuals. ACVRP may be ligated to a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    in biopsied tissues and correlate expression with disease. They
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 of ACVRP and to monitor levels during therapeutic intervention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             to targeted organ, tissue or cell populations and complementary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 390;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Isolated and purified polynucleotide useful for treating or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              preventing cancer, inflammation and viral disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 2012; DB 20;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    - *** .
                                                                                                                                                              Human viral receptor protein (ACVRP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1, Fig 1A-D; 28pp; English
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                                                                                 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1999-493538/41.
                                                                                                                                                                                                                                                                                       gene therapy; human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                    sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             24-NOV-1997;
                                                                                 18-OCT-1999
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AAY27096;
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sdtiskngtlssvtsaralrpphgpprpgaltptpslssgalpsprlpttdgahpqpisp 360
                                   sssgpwevpfvmwffkgkekedqvlsyingvttskpgvslvysmpsrnlslrleglqekd
                                                                                    PAVQYQWDRQLPSFQTFFAPALDVIRGSLSLTNLSSSMAGVYVCKAHNEVGTAQCNVTLE
                                                                                                                                                                         pavqyqwdrqlpsfqtffapaldvirgslsltnlsssmagvyvckahnevgtaqcnvtle
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SSSQPWEVPFVMWPPKQKEKEDQVLSYINGVTTSKPGVSLVYSMPSRNLSLRLEGLQEKD
                                                                      SGPYSCSVNVQDKQGKSRGHSIKTLELNVLVPPAPPSCRLQGVPHVGANVTLSCQSPRSK
                                                                                                                                                                                                              VSTGPGAAVVAGAVVGTLVGLGLLAGLVLLYHRRGKALEEPANDIKEDAIAPRTLPWPKS
                                                                                                                                                                                                                          dermal scarring; Usher Syndrome; Atrophia areata;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Secreted protein; transmembrane protein; human; enterocolitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      abnormal keratinocyte differentiation; psoriasis; epithelial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Parkinson's disease; Alzheimer's disease; ALS; neuropathy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      congenital microvillus atrophy; skin disease; cell growth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Zollinger-Ellison syndrome; gastrointestinal ulceration,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          anti-thrombotic; wound healing; tissue repair
                                                                                                                                                                                                                                                                                                                                                     361 IPGGVSSSGLSRMGAVPVMVPAQSQAGSLV 390
                                                                                                                                                                                                                                                                                                                                                                                          ipggvsssglsrmgavpvmvpagagagslv 390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Amino acid sequence of protein PRO246.
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	PT New isolated numan genes and polypeptides used in, e.g. treatment pr gastrointestinal ulceration	acment or
1/5KP-1997; 9/US-U059115. 17-5KP-1997; 97US-0059117.	AA. PS Claim 12; Fig 17; 320pp; English.	
		4.00
I/-SEP-1997; 9/US-UUS9IZI. 17-SEP-1997; 97US-0059122.	CC The cDNA sequences are obtained from cDNA libraries, prepared from	ed from
17-SEP-1997; 97US-0059184.	CC fetal lung, fetal kidney, fetal brain, fetal liver and fetal retina.	l retina. homology to
		disorders
		ntestinal
••	_	[0 1 4 1
17-OCT-1997; 97US-0062287. 21-OCT-1997: 97US-0062486.	CC (e.g. enterocolitis, Zollinger-Ellison syndrome, gastroincestings CC ulceration and congenital microvillus atrophy), skin diseases associated	stinai associated
		epithelial
	-	d gliomas),
; 97US-0063045.	potent effects on cell growth and development, diseases related to	ated to
24-0CT-1997; 97US-U063121.	CC growin of survival of merve cells including farkinson s disease, CC Alzheimer's disease, ALS, neuropathies or cancer. PRO265 can be used as	be used as
		PRO264 can be used
.,		treatment .
27-0CT-1997; 97US-0063329.	CC of Usher Syndrome or Atrophia areata; PRO269 can be used as an CC	an have
	-	PR0317 can
	CC be used for treating problems of the kidney, uterus, endom	endometrium, blood
	vessels, or related tissue, e.g. in the heart of genital tract.	ract.
28-OCT-1997; 970S-0063550.	SQ Sequence 390.AA;	
	Ouery Match 100.0%; Score 2012; DB 20; Length 390;	390;
	Similarity 100.0%; Pred. No. 5.8e-143;	
	Matches 390; Conservative 0; Mismatches 0; Indels	0; Gaps
	· · · · · · · · · · · · · · · · · · ·	
29-0CT-1997; 97US-0064215.	A TOTAL DESCRIPTION OF THE PROPERTY HORSE	MT.HGEV 60
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	Db 1 mislpgplvtnllrflflglsalappsraqlqlhlpanrlqaveggevvlpawytlhgev	rilbgev 60
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07-NOV-1997; 97US-0064809. 12-NOV-1997: 97HS-0064196.	CO 61 DESCRIBE PERCHANTER AND PROPERTY OF THE CONTROL OF THE CONTR	111111
	Db 61 ssagpwevpfvmwffkgkekedgvlsyingvttskpgvslvysmpsrnlslrleglgekd	eglqekd 120
21-NOV-1997; 97US-0066120.	Qy 121 SGPYSCSVNVQDKQGKSRGHSIKTLELAVLVPPAPPSCKLQGVPHVGANVTLSCQSPRSK	COSPRSK 180
	Db 121 sgpyscsvnyddkggksrghsiktlelnvlyppappscrlggyphyganytlscqsprsk	cgsprsk 180
	Qy 181 PAVQYQWDRQLPSFQTFFAPALDVIRGSLSITNLSSSMAGVYVCKAHNEVGTAQCNVTLE	DONVILE 240
24-NOV-1997; 97US-0066511.	Dy 101 margin feet feet of altitude altitude and an article by a state of the state	
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(GETH) GENENTECH INC.	Qy 241 VSTGPGAAVVAGAVVGTLVGLGLLAGLVLLYRRRGKALEEPANDIKEDAIAPRTLPWPKS	ILPWPKS 300
Chen J, Goddard A, Gurney AL, Pennica D, Wood WI, Yuan J;	DD 241 vatgpgaavvagavvgtlvglgllaglvllyhrrgkajeepandikedaiaprtlpwpks	
wbr. 1000-20052 (10	delanguagning isose isose isose and and and a serves inclusions in the	360
NFL; 1997-22333/19. N-PSDB; AAXS2221.		111111
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              Genes expressing (I), many of which are growth factor homologues, are
                                                                                                                                                                                                                                                                                                                                                                                   SSSOPWEVPFVMWFFKOKEKEDOVLSYINGVTTSKPGVSLVYSMPSRNLSLRLEGLQEKD 120
                                                                                                                                                                                                                                                                                                                                                                                                                                 sssgpwevpfvmwffkqkekedgvlsyingvttskpgvslvysmpsrnlslrleglgekd 120
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may be conjugated to a toxin, chemotherapeutic agent or radiolsotope
                                                                                                                                                                                                                   Gape
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241 vstgpgaavvagavvgtlvglgllaglvllyhrrgkaleepandikedaiaprtlpwpks
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                                                                                                                                                                                                                                                                                                                                   mislpgplvtnllrflflglsalappsraqlqlhlpanrlqaveggevvlpawytlhgev
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                                                                                                                                                                                                                                                                                       MISLPGPLVTNLLRFLFLGLSALAPPSRAQLQLHLPANRLQAVEGGEVVLPAWYTLHGEV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cell growth; proliferation; cell surface virus receptor; ADEPT;
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                                                                                                                                                                                                                                                                                                                                                                                                         Antibody; PRO187; PRO533; PRO214; PRO240; PRO211; PRO230;
                                                                                                                                                                Length 390;
                                                                                                                                                                                                                Indels
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                                                                                                                                                                     Score 2012; DB 20;
                                                                                                                                                                                        Pred. No. 5.8e-143;
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                                                                                                                                                                                                                   0; Mismatches
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                                           overexpressed in some cases of cancer.
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                                                                                                                                                                     100.0%;
                                                                                                                                                                                        100.0%;
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                                                                                                                                                                                                                   Matches 390; Conservative
                                                                                                                                                                                 Best Local Similarity
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                                                                                                 Sequence
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                                                                                                                                                                                                                                                                                                                                        Antibody; PRO187; PRO533; PRO214; PRO240; PRO211; PRO230; PRO261;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     quantification of (I) in cells or tissues, by standard immunoassays,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    expression and/or activity of (I) are used: (i) to inhibit growth of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               tumours, and (1i) as diagnostic/prognostic reagents for detection or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         polypeptides (I) designated PRO187; PRO533; PRO214; PRO240; PRO211;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to antibodies (Ab) that bind to any of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Antibodies against specific proteins overexpressed in tumours
                                                                                                                                                                                                                                                                                                                                                                                      EBAR-2; inhibitor; tumour growth; cancer; EGF-like homologue;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Lawrence DA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This sequence represents the EGF-like homologue PRO246.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hillan K,
                          ipggvsssglsrmgavpvmvpagsgagslv 390
  Gurney A,
                                                                                                                                            AAY05286 standard; Protein; 390 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 1; Fig 27; 130pp; English.
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                                                                                                                                                                                                                                                                                         EGF-like homologue PRO246
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (GETH ) GENENTECH INC
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                                                                                                                                                                                                                                                                                                                                                                                                              FGF-8 homologue
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10-SEP-1998;
                                                                                                                                                                                                                                           22-JUN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       25-NOV-1997;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              18-SEP-1997;
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AA. 23-MAR-2000.	÷ ÷		
AA PP 08-SEP-1999; 99WO-US20594.		Tr sabbacau	
KX PR 10-SEB-1998 98HS-0099803	è	181 PAVQYQWDR	PAVQYQWDRQLBSFQIFFBAPALDVIRGSLSLTNLSSSWAGVYVCKAHNEVGTAQCNVILE 240
10-SEP-1998;	ą	181 pavqyqwdr	pavgyqwdrglpsfqtffapaldvirgslaltnissemagyyvckahnevgtagcnvtle 240
(GETH) GENENTECH INC.	ò	241 VSTGPGAAV	VSTGPGAAVVAGAVVGTLVGLGLLAGLVLLYHRRGKALEEPANDIKEDALAPRTLPWPKS 300
Goddard A, Gurney AL, Hillan KJ, Roy MA, Wood WI, Botstein D;	a		241 vstgpgaavvagtvgtlyglgllaglvllyhrrgkaleepandikedaiaprtlpwpks 300
A. WPI; 2000-271386/23. DR N-PSDB; AAA30052.	70	301 SDTISKNGT	SDTISKNGTLSSVTSRALRPPHGPPRPGALTPTPSLSSQALPSPRLPTTGAHPQDISP 360
		301 sdtiskngt	sdtiskngtlssvtsaralrpphgpprpgaltptpslssqalpsprlpttdgahpqpisp 360
Adagnosis and treatment of neoplastic cell growth and proliferation . CX	රි සි	361 IPGGVSSSG 	361 IPGGVSSSGLSRMGAVPVMVPAGGGASSLV 390
		n	
C This sequence represents a human PRO246 amino acid sequence. PRO246 is probably a cell surface virus receptor. The invention relates to	RESULT	Ŋ	
	AAY94999	66	
IC antibodies which bind to a polypeptide. The "PRO" polypeptides are	4 2 %	AY94999 stand	AAY94999 standard; Protein; 390 AA.
		AAY94999;	
antibodies are used in the producti			
ы		19-JUN-2000 ((first entry)
oc mammai. The antibodies are used for inhibiting the growth of tumour		uman secreted	Human secreted protein vc51 1, SEO ID NO:38.
and identifying compounds that inh			
CC activity of and/or expression of a PRO187, PRO533, PRO214, PRO240,	H C	Human; secrete	Human, secreted protein, cancer, tumour, cardiovascular disorder,
FACELL, FACESO, FACESI, FACESO OL	•	nfection; fun	infection; fungal; bacterial; viral; HIV; allergy; arthrit1s;
		eurodegenerat	neurodegenerative disease; asthma; contraceptive.
CC conjugating the antibody to a prodrug-activating enzyme which converts a	ж os	Homo sapiens.	
prodrug to an anti-cancer drug.		•	
CC labelled and monitored by light microscopy, flow cytometry or	M Nd	WO200011015-A1	
illustimetry CC for diagnosis and prognosis of tumours.		02-MAR-2000.	
	×		
Sequence 390 AA;	PF 2	24-AUG-1999;	99WQ-US19351.
		24-AUG-1998;	98US-0097638.
100.0%; Scor		24-AUG-1998;	98US-0097659.
al Similarity 100.0%; Pred. No. 5.8e-143;		09-SEP-1998;	98US-0099618.
matches 370; Conservative U; Mismatches U; Indels U; Gaps O:		28-5EP-1998; 25-NOV-1998;	98US-0109978.
		23-DEC-1998;	9805-0113645.
2y 1 MISLPGPLYTNLIRFLFLGLSALAPPSRAQLQLHLPANRLQAVEGGEVVLPANYTLHGEV 60	PR C	23-DEC-1998;	98US-0113646.
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fy 61 SSSQPWEVPYVMMPPKQKEKEDQVLSTINGVIISKPGVSLVYSMPSRNLSLKLEGLQEKD 120	¥¥		

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New secreted or transmembrane proteins and polynucleotides encoding
                                              them, useful for treating neurodegenerative disorders, autoimmune
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셤 diseases and cancer

ठे 셤 ò The invention relates to 40 human secreted proteins (AAY94981-Y95020), proteins of the invention include those that are thought to be only and cDNA sequences encoding them (AAA23423-A23462). The secreted Claim 47; Page 296-297; 357pp; English

activin/inhibin activity; chemotactic/chemokinetic activity; haemostatic inhibition activity. The proteins may be administered to patients as and thrombolytic activity; anti-inflammatory activity; and tumour cytokine activity; cell proliferation; differentiation; immune modulation; haematopoiesis regulation; tiqsue growth activity;

invention may exhibit one or more activities selected from the

partially secreted, i.e., transmembrane proteins. The proteins of the

egime. Diseases or conditions that may be treated using the proteins or vaccines, and the nucleotides may be used as part of a gene therapy disorders; haemophilia; cardiovascular diseases; cancer; bacterial, nucleotides of the invention include autoimmune diseases; genetic fungal and viral infections, especially HIV; multiple sclerosis;

ilcers, osteoporosis, osteoarthritis, periodontal diseases, Alzheimer's rheumatoid arthritis; pulmonary inflammation; Guillain-Barre syndrome; asthma and anaemia. They may also be used for treating wounds, burns, insulin dependent diabetes mellitus; and allergic reactions such as

additionally be useful as contraceptives. Nucleic acid sequences of the lateral sclerosis (ALS). Proteins with activin/inhibin activity may disease, Parkinson's disease, Huntington's disease and amyotrophic

diagnostic primers and probes. The present sequence represents one of invention may be used in chromosome mapping, and as a source of Length 390; DB 21; 100.0%; Score 2012; 40 proteins of the invention 390 AA

Sequence

Gaps ö Indels Pred. No. 5.8e-143; ó 0; Mismatches 100.001 Matches 390; Conservative Best Local Similarity Query Match

9 mislpgplvtnllrflflglsalappsraqlqlhlpanrlqaveggevvlpawytlhgev 60 SSSOPWEVPFVMWFFKQKEKEDQVLSYINGVTTSKPGVSLVYSMPSRNLSLRLEGLQEKD 1 MISLEGPLVTWILERPLFLGLSALAPPSRAQLQLHLPANRLQAVEGGEVVLPANYTHGEV

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241 vstgpgaavvagavvgtlvglgllaglvllyhrrgkaleepandikedaiaprtlpwpks 300 241 VSTGPGAAVVAGAVVGTLVGLGLLAGLVLLYHRRGKALEEPANDIKEDAIAPRTLPWPKS SDIISKNGILSSVISARALRPPHGPPRPGALIPTPSLSSQALPSPRLPITDGAHPQPISP

360

361 IPGGVSSSGLSRMGAVPVMVPAQSQAGSLV 390

sdtiskngtlssvtsaralrpphgpprpgaltptpslssgalpsprlpttdgahpqpisp 360

361 ipggvsssglsrmgavpvmvpaqsqagslv 390

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AAU12340

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RESULT

AAU12340 standard; Protein; 390 AA. Human PRO246 polypeptide sequence 24-OCT-2001 (first entry)

AAU12340;

cartilage; ear; proliferation; glucose; free fatty acid; skeletal breast; prostate; cervical; tumour necrosis factor-alpha; TNF-alpha; Human secretory and transmembrane; PRO; mammalian; cancer; lung; adipocyte; A-peptide; factor VIIA; gene therapy

W0200140466-A2

Homo sapiens

muscle;

01-DEC-2000; 2000WO-US32678 07-JUN-2001

99WO-US28564 99WO-US28565 99US-0170262 01-DEC-1999; 01-DEC-1999; 02-DEC-1999, 02-DEC-1999; 09-DEC-1999

99WO-US30095 99WO-US30911 99WO-US30999 16-DEC-1999 20-DEC-1999 20-DEC-1999

99WO-US31243 2000WO-US00277 2000WO-US00376 2000WO-US03565 2000WO-US04341 2000WO-US04342 11-FEB-2000; 06-JAN-2000; 06-JAN-2000; 18-FEB-2000; 18-FEB-2000; 30-DEC-1999;

24-FEB-2000;

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SDTISKNGTLSSVTSARALRPPHGPPRPGALTPTPSLSSQALPSPRLPTTDGAHPQPISP 360
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                                                                                                                         SGPYSCSVNVQDKQGKSRGHSIKTLELNVLVPPAPPSCRLQGVPHVGANVTLSCQSPRSK 180
                                                                                                                                                                                                                                                                                                                    VSTGPGAAVVAGAVVGTLVGLGLLAGLVLLYHRRGKALEEPANDIKEDAIAPRTLPWPKS 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; secretory protein; membrane protein; vaccine; gene therapy;
                                                                              sssqpwevpfvmwffkgkekedqvlsyingvttskpgvslvysmpsrnlslrleglqekd
                                                                                                                                                                                                                        PAVOYOWDROLPSFOTFFAPALDVIRGSLSLTNLSSSMAGVYVCKAHNEVGTAQCNVTLE
                                   SSSQPWEVPFVMWPFKQKEKEDQVLSYINGVITISKPGVSLVYSMPSRNLSLRLEGLQEKD
                                                                                                                                                                                                                                                                                                                                                                                                                               Sugiyama T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human membrane or secretory protein clone PSEC0086
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAB88358 standard; Protein; 390 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           rheumatoid arthritis; diabetes
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRO polypeptides, to modulate biological activities of cells expressing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cartilage, the proliferation of inner ear utricular supporting cells or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        molecules involved in binding interactions. The polynucleotides encoding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRO polypeptides, and to detect the presence of mammalian lung, colon,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              proliferation or differentiation of chondrocytes, the proliferation or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   the PRO polypeptides may modulate glucose or free fatty acid uptake by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      skeletal muscle cells or by adipocytes; or inhibit binding of A-peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  to factor VIIA. The PRO polypeptides can be used in assays to identify
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         monocytes (PBMCs), or the proliferation of endothelial cells. Some of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    breast, prostate, rectal, cervical or liver tumours by comparing PRO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    gene expression in pericyte cells, the release of proteoglycans from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Isolated, secretory and transmembrane PRO polypeptide used to detect
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        other PRO polypeptides, link bioactive molecules to cells expressing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         polypeptide expression in a cell sample to that in a control sample.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                    Gao
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAU12172-AAU12446 represent novel human secretory and transmembrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRO polypeptides, and detect the presence of mammalian tumours e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRO polypeptides can be used to generate probes, antisense RNA/DNA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MISLPGPLVTNLLRPLFLGLSALAPPSRAQLQLHLPANRLQAVEGGEVVLPAWYTLHGEV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   of T-lymphocytes, the release of a cytokine from peripheral blood
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRO polypeptides. The PRO polypeptides are useful to detect other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               to link bioactive molecules to cells expressing
                                                                                                                                                                                                                                                                                                                         A, Godowski PJ, Gurney AL, Sherwood S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  transgenic or knock out animals and can be used in gene therapy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                 Desnoyers L, Filvaroff E,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 390;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           tumour necrosis factor-alpha (TNF-alpha) from human blood,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indela
                                                                                                                                                                                                                                                                                                                                                 Wood WI,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%; Score 2012; DB 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%; Pred. No. 5.8e-143;
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                                                                                                                                                                                                                                                                                                                                                   Tumas D, Watanabe CK,
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                                                                                                                                                                                                                                                                                                      Deforge L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 12; Fig 338; 813pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .ung, breast, prostate, cervical
                     2000WO-US05601.
                                        2000WO-US07377.
                                                                  2000WO-US07532.
                                                                                                                                       2000WO-US14042.
                                                                                                                                                            2000WO-US14941.
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                                                                                                                                                                                                                                                                                                                              Gerritsen ME, Goddard
                                                                                                                                                                                                                                                                                                    Beresini M,
                                                                                                                                                                                                                                                         (GETH ) GENENTECH INC
                                                                                                                                                                                                                                                                                                                                                      Stewart TA,
                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2001-408281/43.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRO polypeptides,
                                                                                                                                                                                                                                                                                                                                                                                                                          N-PSDB; AAS21412.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       390
                                                                                                                                       22-MAY-2000;
24-PEB-2000;
                     11-MAR-2000;
                                          20-MAR-2000;
                                                                  21-MAR-2000;
                                                                                          30-MAR-2000;
                                                                                                               17-MAY-2000;
                                                                                                                                                            30-MAY-2000;
                                                                                                                                                                                    02-JUN-2000;
                                                                                                                                                                                                                                                                                                        Baker KP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                      Smith V,
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2000WO-US05004

Hayashi K;

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301 SDTISKNGTLSSVTSARALRPPHGPPRPGALTPTPSLSSQALPSPRLPTTDGAHPQPISP 360
                                                                   301 sdtiskngtlesvtsaralrpphgpprpgaltptpslesgalpsprlpttdgahpqpisp 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            antibody that binds to a PRO polypeptide, e.g. PRO187 and PRO533,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Wood WI;
                                 ROY MA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hillan KJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 useful for diagnosing and treating cancers -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cytostatic; PRO protein; tumour; cancer.
                                                                                                                                    IPGGVSSSGLSRMGAVPVMVPAOSOAGSLV 390
                                                                                                                                                                                                       361 ipggvassglarmgavpvmvpagsgagslv 390
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                                                                                                                                                                     AAB68599 standard; Protein; 390 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99US-0144758
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Botstein D, Goddard A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GETH ) GENENTECH INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2001-091968/10.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        15-SEP-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAB68599;
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                                                                                                                                                                                                                                                                                                             RESULT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             as antigens in the production of antibodies against them and in assays
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               activity. The antibodies and antagonists may also be used as therapeutic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              agents to down regulate expression and activity. The antibodies may also
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              presence of similar nucleic acid sequences in samples. They may also be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                used to study the expression and function of secretory proteins/membrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  polypeptides and their role in metabolism. The polypeptides may be used
                                                                                                                                                                                                              to isolate
                                                                                                                                                                                                                                                                                                                                               sequences, which can be used in vaccines. The polynucleotide sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein/membrane protein expression. The nugleic acids and complementary sequences may also be used as DNA probes in diagnostic assays
                                                                                                                                                                                                                                                                           cDNA sequences of the invention. The invention also includes methods for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (ELISA). Examples of diseases which may be treated include rheumatoid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      sssqpwevpfvmwffkqkekedqvlsyingvttskpgvslvysmpsrnlslrleglqekd 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SGPYSCSVNVODKOGKSRGHSIKTLELNVLVPPAPPSCRLOGVPHVGANVTLSCOSPRSK 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gарв
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                             the production of antibodies directed against the proteins, and cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (e.g. polymerase chain reactions (PCR)) to detect and quantitate the
                                                                                                         This invention relates to nucleic acid sequences AAF93744 - AAF93916
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              polypeptides in samples (e.g. by enzyme linked immunosorbant assay
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  mislpgplvtnllrflflglsalappsraqlqlhlpanrlqaveggevvlpawytlhgev
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MISLPGPLVTNLLRPLFLGLSALAPPSRAQLQLHLPANRLQAVEGGEVVLPANYTLHGEV
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                                                                                                                                                                                                                                                                                                                                                                             can be used in gene therapy. The polynucleotide sequences and the
                                                                                                                                                                                                                                                                                                                                                                                                               proteins they encode may be used in the prevention, treatment and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         dentify modulators (agonists and antagonists) of expression and
                                                                                                                                              which encode human secretory or membrane proteins represented by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                be used as diagnostic agents for detecting the presence of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 390;
                                                                                                                                                                                                                                                                                                                                                                                                                                          diagnosis of diseases associated with inappropriate secretory
                                                                                                                                                                                                              AAP93917 - AAP94295 and AAF62232 - AAF62235 which are used
                                                                                                                                                                                AAB88317 - AAB88419. Included in the invention are primers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%; Pred. No. 5.8e-143;
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                                            Claim 1; SEQ ID 84; 609pp + CD ROM; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Mismatches
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Conservative

Best Local Similarity

Query Match

Matches 390;

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121

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181 181

urthritis and diabetes.

390 AA

Sequence

The PRO are amplified in the genome of tumour cells. The gene amplification is

300

pavgygwdrglpsfgtffapaldvirgslsltnlsssmagvyvckahnevgtagcnvtle VSTGPGAAVVAGAVVGTLVGLGLLAGLVLLYHRRGKALEEPANDIKEDAIAPRTLPWPKS

present sequence is one such PRO protein. It was found that the The present invention relates to PRO proteins and coding sequences.

PRO1308;	KW PRO1183; PRO1272; PRO1419; PRO4999; PRO7170; PRO248; PRO353; PRO1318;	KW PRO1600; PRO9940; PRO533; PRO301; PRO187; PRO337; PRO1411; PRO4356;
expected to be associated with the overexpression of the gene product		contributes to tumourigenesis. Therefore, antagonists of PRO proteins

ng Cg

Homo sapiens the treatment of benign or malignant tumours, leukaemias, lymphoid malignancies and other disorders such as neuronal, glial, nseful for

astrocytal, hypothalamic, glandular, epithelial, inflammatory and # 0 0 0 0 x x x

immunologic disorders

Gaps ö Length 390; Indels 100.0%; Score 2012; DB 22; Best Local Similarity 100.0%; Pred. No. 5.8e-143; ö 0; Mismatches Matches 390; Conservative 390 AA; Sequence Query Match

9 mislpgplvtnllrflflglsalappsraglglhlpanrlgaveggevvlpawytlhgev 60 mislpgplvtnilrplfiglsalappsraoloihipanrloaveggevvlpamytlhgev

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ipggvasaglarmgavpvmvpaqaqagalv 390 361 IPGGVSSSGLSRMGAVPVMVPAOSQAGSLV 390

361

AAB31207

AAB31207 standard; Protein; 390 AA (first entry) 20-APR-2001 AAB31207;

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PRO185; PRO210; PRO215; PRO217; PRO242; PRO288; PRO365; PRO1361; Human; secreted protein; transmembrane protein; PRO196; PRO444; PRO183; Amino acid sequence of human polypeptide PR0246.

PRO246; PRO265; PRO941; PRO10096; PRO6003; PRO6004; PRO350; PRO2630;

PRO6309; cell death; genetic disorder; transgenic animal; gene therapy

'note= "N-myristoylation site" /note= "signal peptide' cocation/Qualifiers

96..06

fodified-site Modified-site Modified-site Modified-site Modified-site Modified-site Modified-site

Peptide

'note= "N-glycosylation site" 108..112

/note= "N-myristoylation site" 167..173

'note= "N-glycosylation site" note= "N-glycosylation site" 213..217 169.173

'note= "N-myristoylation site" 'note= "N-myristoylation site" 231..237 220..226 236..240

Modified-site

/note= "transmembrane protein" /note= "N-myristoylation site" /note= "N-myristoylation site" 'note= "N-glycosylation site" 245..267 252..258 256..262

> Modified-site Modified-site Modified-site

Domain

/note= "N-myristoylation site" /note= "N-myristoylation site" /note= "N-glycosylation site" 262..268 307..311 308..314

Modified-site

Modified-site

/note= "N-myristoylation site"

/note= "N-myristoylation site"

363..369 364..370

Modified-site

Modified-site

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22-MAY-2000; 2000WO-US14042

99US-0139695 99US-0145070 99US-0149396

> 15-JUN-1999; 26-JUL-1999;

20-JUL-1999 7-AUG-1999 11-SEP-1999 08-SEP-1999 15-SEP-1999

15-SEP-1999;

99WO-US21090

99WO-US20111 99WO-US20594

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Human, PRO, dermatological; antipsoriatic; cytostatic; antiinflammatory;
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                                                                                                                                                                                                                                                                                          240
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                                                       sssqpwevpfvmwffkqkekedqvlsyingvttskpgvslvysmpsrnlslrleglqekd 120
                                                                                                                                                                                                                                   240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             antiarthritic; antiinfertility; antidiabetic; antiviral; diabetes;
                                                                                                                                                                                                                                                                                                                                               VSTGPGAAVVGGAVVGTLVGLGGLAGLVLLYHRRGKALEEPANDIKEDAIAPRTLPWPKS
SSSOPWEVPPVMWFFKOKEKEDQVLSYINGVTTSKPGVSLVYSMPSRNLSLRLEGLOEKD
                                                                                                                                                                                                                                                       SGPYSCSVNVQDKQGKSRGHSIKTLELNVLVPPAPPSCRLQGVPHVGANVTLSCQSPRSK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                SDIISKNGTLSSVTSARALRPPHGPPRPGALTPTPSLSSQALPSPRLPTTDGAHPQPISP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      antiparkinsonian nootropic; neuroprotective; vulnerary; cardiant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                antiangiogenic; vasotropic; antiasthmatic; antirheumatic; cancer;
                                                                                                                                                                                                                                PAVOYOWDROLPSFOTFFAPALDVIRGSLSLTNLSSSMAGVYVCKAHNEVGTAQCNVTLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        361 ipggvassglsrmgavpvmvpaqaqagslv 390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IPGGVSSSGLSRMGAVPVMVPAQSQAGSLV 390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAB80219 standard, Protein; 390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              22-FEB-2000; 2000WO-US04414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             99US-0146222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ischaemia; inflammation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human PRO246 protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200104311-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ношо варіеля
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   07-JUL-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                26-JUL-1999:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             24-APR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28-JUL-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          08-SEP-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    18-JAN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAB80219;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 10
                                                                                                                                                                                 121
                                                                                                                                                                                                                                                                                                                                                        241
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                                                                                                                                                                                                                                         181
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  reagents. The polynucleotides can also be used in gene therapy e.g. to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ransmembrane polypeptide is useful for gene therapy and identification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   colypeptide. The specification describes human polypeptides, designated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRO196, PRO444, PRO183, PRO185, PRO210, PRO215, PRO217, PRO242, PRO288,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRO6004, PRO350, PRO2630 and PRO6309. The biological activity of cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         can be modulated with agents that bind to these polypeptides, resulting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        analysing genetic disorders, and to produce transgenic animals which are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRO365, PRO1361, PRO1308, PRO1183, PRO1272, PRO1419, PRO4999, PRO7170,
PRO248, PRO353, PRO1318, PRO1600, PRO9940, PRO533, PRO301, PRO187,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             colypeptides, as a hybridisation probe to screen libraries to isolate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mather JP, Napier MA, Pan J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   D, Watanabe CK, Williams PM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Isolated nucleic acid molecule encoding a PRO polypeptide which is a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 MISLPGPLVTNLLRFLFLGLSALAPPSRAQLQLHLPANRLQAVEGGEVVLPAWYTLHGEV 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRO337, PRO1411, PRO4356, PRO246, PRO265, PRO941, PRO10096, PRO6003,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              homologous sequences, or to map the gene. They may also be used for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        useful for the development and screening of therapeutically useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present sequence represents a human secreted and transmembrane
                                                                                                                                                                                                                                                                                                                                                                                                                     Desnoyers L, Eaton DL;
Gerritsen ME, Goddard A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 390;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         in the death of the cells. The polynucleotides encoding these
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   polypeptides are useful in the recombinant production of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%; Score 2012; DB 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     100.0%; Pred. No. 5.8e-143;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                  Ashkenazi AJ, Baker KP, Botstein DA,
                                                                                                                                                                                                                                                                                                                                                                                                                                               Gao W, Gerber H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Stewart TA, Tumas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Godowski PJ, Gurney AL, Kljavin IJ,
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Claim 12; Fig 58; 244pp; English

of related polypeptides -

WPI; 2001-050091/06

N-PSDB; AAC87040.

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2000WO-US07377.

20-MAR-2000;

(GETH) GENENTECH INC

X & X

17-MAY-2000; 30-MAR-2000; LS-MAY-2000;

Fong S,

Perrara N,

Paoni NF, Roy MA,

Zhang Z;

Wood WI,

9903-0169495 2000WO-US00219 2000WO-US04341 2000WO-US04342 2000WO-US04414 2000WO-US05601 2000WO-US05841 2000WO-US08439 2000WO-US13358 2000WO-US13705

18-FEB-2000; 01-MAR-2000; 02-MAR-2000;

18-FEB-2000; 22-PEB-2000;

35-JAN-2000; 17-DEC-1999;

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Matches 390; Conservative

Best Local Similarity

Query Match

replace a defective gene

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Sequence

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Crohn's disease; psoriasis; endometriosis; ulcer; wound healing; cancer;
                                                                   240
                                                                             301 sátiskngtlssvtsaralrpphgpprpgaltptpslssgalpsprlpttdgahpgpisp 360
                                                                                                                                                 300
                                                                                                                                                                                                                                SDTISKNGTLSSVTSARALRPPHGPPRPGALTPTPSLSSQALPSPRLPTTDGAHPQPISP 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cardiac hypertrophy; cardiovascular disorder; endothelial disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              myocardial infarction; diabetic retinopathy; rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Alzheimer's disease; Huntington's disease; stroke; drug screening;
PAVQYQWDRQLPSPQTFFAPALDVIRGSLSLTNLSSSMAGVYVCKAHNEVGTAQCNVTLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           angiogenic disorder; atherosclerosis; osteoporosis; hypertension;
                                                                                                                                                 241 VSTGPGAAVVAGAVVGTLVGLGLLAGLVLLYHRRGKALEEPANDIKEDAIAPRTLPWPKS
                                                                                                                                                                                                                                                   Human; angiogenesis-associated protein; PRO; endothelial cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human angiogenesis-associated protein PRO246, SEQ ID NO:96.
                                                                                                                                                                                                                                                                                                                                                            361 ipggvsssglsrmgavpvmvpaqsqagslv 390
                                                                                                                                                                                                                                                                                                                  IPGGVSSSGLSRMGAVPVMVPAQSQAGSLV
                                                                                                                                                                                                                                                                                                                                       Z
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAB53082 standard; Protein; 390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gene therapy; transgenic animal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         99WO-US05028
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99US-0134287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99WO-US12252.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         99US-0141037.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         99US-0144758.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 99US-0145698.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99WO-US20111.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        99WO-US20594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              99WO-US21090.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                99WO-US21547.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 05-JAN-2000; 2000WO-US00219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99US-0123957
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     99WO-US23089
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO200053753-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    02-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         23-JUN-1999,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 26-JUL-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        05-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14-MAY-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20-JUL-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-SEP-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15-SEP-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAB53082;
                                                                                                                                                                                                                                                                                                                       361
                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 11
                                                                     181
                                                                                                                                                                                                                                     301
                           121
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The PRO nucleic acids have applications in molecular biology, including
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     useful for treating skin diseases (e.g. psoriasis), cancers (e.g. lung
                                                                                                                                                                                                                                                                                                                                                                                                                                                Sixty one nucleic acids encoding PRO polypeptides which are useful in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SSSQPWEVPFVMWFFKQKEKEDQVLSYINGVTTSKPGVSLVYSMPSRNLSLRLEGLQEKD 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sssgpwevpfvmwffkqkekedqvlsyingvttskpgvslvysmpsrnlslrleglqekd 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        121 SGPYSCSVNVQDKQGKSRGHSIKTLELMVLVPPAPPSCRLQGVPHVGANVTLSCQSPRSK 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             enterocolitis), neurodegenerative diseases (e.g. Alzheimer's disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       the treatment of skin diseases (e.g. psoriasis), cancers (e.g. lung
                                                                                                                                                                                                                                                                               Gerritsen ME, Goddard A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Parkinson's disease), wound repair, cardiovascular disorders (e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 MISLPGPLVTNLLRFLFLGLSALAPPSRAOLOLHLPANRLOAVEGGEVVLPAWYTLHGEV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ischaemia, atherosclerosis), inflammatory disorders (e.g. asthma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rheumatoid arthritis, multiple sclerosis), infertility, AIDS and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          use as hybridization probes, and in chromosome and gene mapping
                                                                                                                                                                                                                                                                                                  Kljavin IJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                            Ferrara N;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   endometrial bleeding angiogenesis, ischaemias such as coronary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 390;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                diabetes and retinal disorders such as retinitis pigmentosum.
                                                                                                                                                                                                                                                                                                                         Tumas D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      squamous cell carcinoma) and neurodegenerative diseases (e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present sequence is one of sixty one novel secreted and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          aquamous cell carcinoma), gastrointestinal disorders (e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  transmembrane PRO polypeptides. The PRO polypeptides are
                                                                                                                                                                                                                                                            Eaton DL,
                                                                                                                                                                                                                                                                                                    Hillan KJ,
                                                                                                                                                                                                                                                                                                                       Stewart TA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100.0%; Score 2012; DB 22;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%; Pred. No. 5.8e-143;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .
0
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Claim 1; Fig 17; 393pp; English.

Alzheimer's disease)

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Desnoyers L,

Filvaroff E, Fong S, Gao W, Gerber H,

Botstein D,

Ashkenazi AJ,

(GETH) GENENTECH INC

99WO-US28214. 99WO-US21547 99WO-US23089 99WO-US28313 99WO-US30911

99WO-US30095 99WO-US30999 99WO-US00219

99WO-US21090

15-SEP-1999 15-SEP-1999; 05-0CT-1999; 29-NOV-1999; 30-NOV-1999; 16-DEC-1999; 20-DEC-1999; 20-DEC-1999; 05-JAN-2000; Grimaldi CJ, Gurney AL,

Roy MA

Mather JP, Pan J, Paoni NF,

Wood WI;

Williams PM, Godowski PJ,

WPI; 2001-081051/09.

N-PSDB; AAF72379

0; Mismatches

Matches 390; Conservative

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Best Local Similarity

Query Match

390 AA;

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(GETH) GENENTECH INC.

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1 MISLPGPLVTNLLRFLFLGLSALAPPSRAQLQLHLPANRLQAVEGGEVVLPAMYTLHGEV

Ashkenazi AJ, Baker KP, Ferrara N, Gerber H, Goddard A; Godowski PJ, Gurney AL, Hillan KJ, Kuo SS, Mark MR, Marsters SA; Paoni NF, Pitti RM, Watanabe CK, Williams PM, Wood WI;

DR WPI, 2001-090793/10.
DR N-PSDB, AAC97441.
XX
PT New isolated nucleic PT genetic disorders are PT anglogenic disorders

New isolated nucleic acid for producing a PRO polypeptide, analyzing genetic disorders and treating cardiovascular, endothelial or angiogenic disorders, such as atherosclerosis, wounds or cancer -

Claim 69; Fig 38; 293pp; English.

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The invention relates to novel human angiogenesis-associated proteins designated RNO-proteins (ABS3064-BS109), and to nucleit caids encoding PRO proteins. The invention also relates to vectors and host cells comprising a PRO nucleic acid, the recombinant production of a PRO protein, PRO antibodies specific for a PRO protein, fusion proteins comprising a PRO nuclein, agonists or antagonists of a PRO protein, and compounds which inhibit the expression of a PRO gene. The invention additionally encompasses methods of identifying medulators of PRO expression or activity; diagnosing a cardiovascular, endothelial or angiogenic disorder, or a susceptibility to such a disorder by detecting mutations in a PRO gene, or the expression level of a PRO gene within a particular tissue, irreating a cardiovascular, endothelial or angiogenic disorder us the administration of a PRO protein, PRO nucleic acid, or PRO agonist or antagonist; a retroviral gene therapy vector comprising

PRO nucleic acid; and methods of inhibiting or stimulating enothelial cell growth, cardiac hypertrophy or RO-induced analogemests via the administration of a RRO protein, or an agonist or antagonist thereof. FRO nucleic acids, PRO proteins, antibodies against PRO proteins, PRO egonists and PRO antagonists may be used as therapeutic agents to treat cardiovascular, endothelial or analogemic disorders, such as atherosclerosis, osteoporosis, myocardial infarction, hypertension, diabetic retinopathy, rheumatoid arthritis, Crohn's disease, psoriasis, endomeriosis, ulcers, wundis, cancer, Alzineiner's disease, psoriasis, endomeriosis, atroke. PRO nucleic acids are additionally useful in the recombinant production of PRO proteins, as hybridisation probes to

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to map genes encoding PRO proteins, to analyse genetic disorders, and in gene therapy. PRO nucleic acids can also be used to produce transgenic animals useful for the development and screening of potential therapeutic agents. The present sequence represents a PRO protein of the

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screen libraries to isolate cDNAs with sequence identity to PRO

Sequence 390 AA;

100.0%; Score 2012; DB 22; Length 390;

Query Match

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301 sdtiskngtlssvtsaralrpphgpprpgaltptpslssgalpsprlpttdgahpqpisp 360
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RESULT 12

ID AAE06610 standard; Protein; 390 AA

AAE06610;

(first entry)

25-SEP-2001

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Human protein having hydrophobic domain, HP10801

Human; hydrophobic domain; gene therapy; nutritional supplement; cell proliferation; immunomodulatory; autoimmune disorder; microbial;

KW Cell proliferation; imminiondouterory; suctionment districtions antimicrobial; maintimicrobial; maintimicrobial; kw multiple sclerosis; theumatoid arthritis; insulin-dependent diabetes; kw haematopoiesis; tissue growth activity; Parkinson's disease; cytostatic; kw Huntington's disease; chemokinetic; kw haemostatic; thrombolytic; tumour growth inhibitor; anabolic; kw contraceptive, antilinfertility; antiinflammatory.

OS Homo sapiens.

Key Location/Qualifiers
Peptide 1..30
/label= Signal_peptide
Protein 31..390

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AAY76124 to AAY76223 are the secreted proteins encoded by the 97 human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     diagnosed by determining the amount of the new polypeptides in a sample
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAZ65250 to AAZ65350 represent 97 isolated human secreted protein genes.
                                                                                                       foetal deficiency; blood disorder; immune system disorder; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    proteins. The genes and their corresponding secreted polypeptides are
                                                                                                                              autoimmune disease; allergy; Alzheimer's disease; cognitive disorder;
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                                                                                  Human; secreted protein; cancer; tumour; developmental abnormality;
                                                                                                                                                   schizophrenia; arthritis; asthma; psoriasis; sepsis; skin disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New isolated human genes and the secreted polypeptides they encode,
                                                                                                                                                                                                 digestive disorder; endocrine disorder; infection; AIDS; leukaemia;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        disorders, immune diseases, inflammation or blood disorders
                                       Fragment of human secreted protein encoded by gene 29.
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23-MAR-2000
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                                                                                                                                                                                                        present invention provides the protein and coding sequences of a
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                                                                sequences, proteins encoded by them and antibodies against them
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                                                                                                                                                                                                                                                  diagnosis, treatment and screening of vascular diseases caused by
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                                                                                                                                                               Claim 35; Page 599-601; 678pp; Japanese.
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AAY76303

Sugano S

Nakamura Y,

Sekine S,

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WPI; 2001-266308/27.

N-PSDB; AAH02949

arteriosclerosis -

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RESULT 14

AAY76303

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may be used to produce the polypeptide, by inserting the nucleic acids polynucleotides and its complementary sequences may also be used as DNA

ymucleotides

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into a host cell and culturing the cell to express the protein.

may be used in the prevention, diagnosis and treatment of diseases

The present sequence is human protein with hydrophobic domain,

Claim 1; Page 448-450; 563pp; English.

Alzheimer's and inflammation

HP10801. The polynucleotide and polypeptide of the invention

associated with inappropriate polypeptide expression.

Human proteins with hydrophobic domains and the nucleic acids encoding

· ...

SAGA) SAGAMI CHEM RES CENT

Kimura T;

Kato S,

WPI; 2001-418355/44.

N-PSDB; AAD12605.

28-DEC-2000; 2000WO-JP09359

WO200149728-A2

12-JUL-2001

2000JP-0000585 2000JP-0000588

06-JAN-2000; 06-JAN-2000; 11-JAN-2000; 2000JP-0002299 03-FEB-2000; 2000JP-0026862. 33-MAR-2000; 2000JP-0058367 (PROT-) PROTEGENE INC them, useful for preventing diagnosing and treating e.g. cancer,

microbial infections and autoimmune disorders such as multiple

activity. The polypeptides and nucleic acids may be used as nutritional

and in assays to identify modulators of polypeptide expression

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polypeptides may also be used as antigens in the production

probes in diagnostic assays and also used in gene therapy.

supplements, to modulate cytokine and cell proliferation activity, to modulate immune stimulation or suppression (e.g. for the treatment of treatment of Parkinson's disease, Huntington's disease and Alzheimer's disease), to modulate activin and inhibin activity (e.g. for controlling

rheumatoid arthritis and insulin-dependent diabetes), to modulate

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haematopoiesis, to modulate tissue growth activity (e.g. for the

Isond activity, to modulate inflammation and to inhibit tumour growth

390 AA;

modulate haemostatic and thrombolytic activity, to modulate receptor

fertility), to modulate chemotactic and chemokinetic activity, to

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Indels

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Matches 389; Conservative

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Length 390;

DB 22;

Score 2004;

99.6%;

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Pred. No. 2.3e-142;

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US-09-902-759-39 133 6.6 68 68	re: le: sing: le: 1	133 133.5 132.5 132.5 132.5 132.5 132.5 132.5 132.5 123.5 128.5 128.5 128.5 128.5	ਜ਼ ਜ	2 US-08-502-2 US-08-502-2 US-08-414-2 US-08-414-4 US-08-414-2 US-0	7.25-36 45.54-17 65.70-56 65.70-48 65.70-44 65.70-44 65.70-40 65.70-60 774-2 1.30-2 2.35-2 1.30-2 2.85-2 2.85-2 2.85-2 65.70-5 65.70-4 65.70-4 65.70-4 65.70-4
### Application	US-09-902-759-39 1 MISLPGPLVTNLLRPLPLGLSRWGAVPVNVPAQSQAGSIV 390 table: BLOSUM62 Gapop 10.0 , Gapext 0.5 231628 seqs, 24425594 residues mber of hits satisfying chosen parameters: 231628 DB seq length: 0 DB seq length: 0 DB seq length: 0 Thinmum Match 1004 Listing first 45 summaries Issued Patents AA:* 1: /cgn2_6/ptodata/2/iaa/SA_COMB.pep:* 2: /cgn2_6/ptodata/2/iaa/SB_COMB.pep:* 3: /cgn2_6/ptodata/2/iaa/SB_COMB.pep:* 4: /cgn2_6/ptodata/2/iaa/SB_COMB.pep:* 5: /cgn2_6/ptodata/2/iaa/SB_COMB.pep:* 5: /cgn2_6/ptodata/2/iaa/SB_COMB.pep:* 6: /cgn2_6/ptodata/2/iaa/SB_COMB.pep:* 6: /cgn2_6/ptodata/2/iaa/SB_COMB.pep:* 6: /cgn2_6/ptodata/2/iaa/SB_COMB.pep:* 7: /cgn2_6/ptodata/2/iaa/SB_COMB.pep:* 7: /cgn2_6/ptodata/2/iaa/PcTUS_COMB.pep:*	133.5 132.5 132.5 132.5 132.5 132.5 132.5 132.5 132.5 129 129 129 129 128.5 128.5	ਜ਼ ਜ਼	2 US-08-914-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9	8673-17 6573-46 6573-46 6573-46 6573-41 6573-60 774-2 130-2 130-2 130-2 130-2 6573-41 6573-42 6573-43
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### Application	in MISLPGPLVTNLLRFLFLGLSRWGAVPVWVPAQSQAGSLV 390 Lable: BLOSUN62 Gapop 10.0, Gapext 0.5 231628 seqs, 24425594 residues ber of hits satisfying chosen parameters: 231628 be seq length: 0 Cessing: Minimum Match 100* Listing first 45 summaries Listing first 45 summaries 1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:* 2: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:* 3: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:* 4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:* 5: /cgn2_6/ptodata/2/iaa/eA_COMB.pep:* 6: /cgn2_6/ptodata/2/iaa/eA_COMB.pep:* 7: /cgn2_6/ptodata/2/iaa/eA_COMB.pep:* 6: /cgn2_6/ptodata/2/iaa/eA_COMB.pep:* 7: /cgn2_6/ptodata/2/iaa/eA_COMB.pep:* 6: /cgn2_6/ptodata/2/iaa/eA_COMB.pep:* 7: /cgn2_6/ptodata/2/iaa/eA_COMB.pep:*	132.5 132.5 132.5 132.5 132.5 132.5 132.5 129 129 129 128.5 128.5	н н	2 US-08-414- 2 US-08-414- 2 US-08-414- 2 US-08-414- 2 US-08-414- 4 US-09-040- 1 US-08-261- 1 US-08-285- 1 US-08-285- 1 US-08-285- 1 US-08-285- 1 US-08-481- 1 US-08-481- 2 US-08-414- 2 US-08-414-	6570-48 6570-44 6570-44 6570-2 6570-6 6570-60 774-2 2364-2 2364-2 664-2 664-2 6650-4 6570-43
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231628 12.5 6.6 32 30 132.5 6.6 32 31 12.5 6.6 32 31 12.5 6.6 32 31 12.5 6.6 32 32 12.5 6.6 32 33 12.5 6.6 32 34 130 6.5 109 35 12.9 6.4 91 36 12.9 6.4 91 37 12.9 6.4 91 38 12.9 6.4 91 39 12.9 6.4 91 39 12.9 6.4 91 39 12.9 6.4 91 30 12.8 5 6.4 31 30 12.8 5 6.4 31 30 12.8 5 6.4 31 30 12.8 5 6.4 31 31 12.8 5 6.4 31 32 12.8 5 6.4 31 33 12.8 6.4 31 34 128.5 6.4 31 39 12.9 6.4 91 39 12.9 6.4 91 30 12.8 5 6.4 31 30 12.8 50.00 30 12.8	pep: * *	132.5 132.5 132.5 132.5 132.5 132.1 130 129 129 128.5 128.5 128.5	r =	2 US-08-414- 2 US-08-414- 2 US-08-414- 1 US-08-26- 1 US-08-26- 1 US-08-481- 1 US-08-481- 1 US-08-484- 2 US-08-414- 2 US-08	6570-2 6570-4 6570-4 6570-60 774-2 304-2 485-5 485-5 130-2 984A-2 664-2 6670-5 6570-5 6570-45 6570-43
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3: /cgm2_6/ptodata/2/iaa/6B_COMB.pep:* 5: /cgm2_6/ptodata/2/iaa/6B_COMB.pep:* 5: /cgm2_6/ptodata/2/iaa/6B_COMB.pep:* 5: /cgm2_6/ptodata/2/iaa/6B_COMB.pep:* 6: /cgm2_6/ptodata/2/iaa/6B_COMB.pep:* 7: cgm2_6/ptodata/2/iaa/6B_COMB.pep:* 7: cgm2_6/ptodata/				2 US-08-414	-657D-43
4: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:* 5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:* 6: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:* 6: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:* 6: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:* 6: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:* 7: derived by analysis of the total score distribution. 7: sequence 1, Appl.cation SUMMARIES SEQUENCES: SEQUENC				2 US-08-414	
5: /cgn2_6/ptodata/2/laa/PcTUS_COMB.ppp:* 6: /cgn2_6/ptodata/2/laa/PcTUS_COMB.ppp:* No. is the number of results predicted by chance to have a greater than or equal to the score of the result being printed, US-08-979-424-1 Aderived by analysis of the total score distribution. Agreemee 1, Application Sequence 1, Application Petric Match Length DB ID Petric Match DB ID Petric Match DB ID Petric Match DB ID Petric Match DB ID Petri					
Greater than or equal to the score of the result being printed, US-08-979-424-1				ALIG	NMENTS
### Sequence of the tresult being printed, US-08-979-424-1 derived by analysis of the total score distribution. Sequence 1, Application Sequence 2, Application Sequen	ed. No. is the number of results predicted by chance to have a				
US-08 979-421 US-08 979-421 Sequence 1, Application Patent No. 5942606 Patent No. 5942606 APPLICANT: Lal, Preparation: APPLICANT: Lal, Preparation: APPLICANT: Corley, TITLE OF INVENTON: Appli	greater than or equal to the score of the result being printed,	OLT 1			
## SPACE CONTRACTES Query Query Match Length DB ID Description 100.0 330 2 US-08-979-424-1 2 365 4 US-08-928-383B-2 17.2 365 4 US-08-928-383B-2 17.2 365 4 US-08-928-383B-2 17.2 365 4 US-08-928-383B-2 17.2 365 4 US-08-928-383B-2 17.3 365 4 US-08-928-383B-2 17.4 365 2 US-08-928-383B-2 Sequence 2, Appli 17.0 365 2 US-08-928-383B-2 Sequence 2, Appli 17.0 365 4 US-08-928-383B-24 Sequence 32, Appli 17.0 365 5		08-979-424-1	•		
## GENERAL INFORMATION: Query Match Length DB ID Description APPLICANT: Lal, Pred APPLICANT: Lal, Pred APPLICANT: Lal, Pred APPLICANT: Lal, Pred APPLICANT: Corley, Interpred APPLICANT: APP	~	equence 1, Appli	cation US	/08979424	
Query Match Length DB ID Description APPLICANT: Lall, Pred 100.0 390 2 US-08-979-424-1 Sequence 1, Appli (NUMBER OF SEQUENCES): NUMBER OF SEQUENCES): 17.2 100.0 365 4 US-08-928-383B-2 Sequence 26, Appl (NUMBER OF SEQUENCES): NUMBER OF SEQUENCES): 17.2 365 4 US-08-928-383B-2 Sequence 23, Appl (NUMBER OF SEQUENCES): 10.7 to 365 4 US-08-928-383B-2 Sequence 23, Appl (NUMBER OF SEQUENCES): 10.7 to 365 4 US-09-928-383B-2 Sequence 23, Appl (NUMBER OF SEQUENCES): 10.7 to 365 4 US-09-272-406-2 Sequence 2, Appl (NUMBER OF SEQUENCES): 10.7 to 365 4 US-09-272-406-2 Sequence 2, Appl (NUMBER OF SEQUENCES): 10.7 to 365 4 US-09-28-383B-2 Sequence 2, Appl (NUMBER SEADABLE FOR SEQUENCES): Number OF SEQUENCES 4 US-09-175-588-2 Sequence 2, Appl (NUMBER READABLE FOR SEQUENCES): Number OF SEQUENCES 3 Appl (NUMBER SEADABLE FOR SEQUENCES): Number OF SEQUENCES 3 Appl (NUMBER SEADABLE FOR SEQUENCES): Number OF SEQUENCES 3 Appl (NUMBER SEADABLE FOR SEQUENCES): Number OF SEQUENCES 3 Appl (NUMBER SEADABLE FOR SEQUENCES): Number OF SEQUENCES 3 Appl (NUMBER SEADABLE FOR SEQUENCES): Number OF SEQUENCES 3 Appl (NUMBER SEADABLE FOR SEQUENCES): Number OF SEQUENCES 3 Appl (NUMBER SEADABLE FOR SEQUENCES): Number OF SEQUENCES 3 Appl (NUMBER SEADABLE FOR SEQUENCES): Number OF SEQUENCES 3 Appl (NUMBER SEADABLE FOR SEQUENCES): Number OF SEQUENCES 3 Appl (NUMBER SEADABLE FOR SEQUENCES): Number	SUMMARIES	atent No. 59426U Genepal, INPORMAT	. 201		
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100.0 365 4 US-08-978-383B-26 Sequence 2, Appl NUMBER OF SEQUENCES: 17.6 365 4 US-08-928-383B-26 Sequence 2, Appl NUMBER OF SEQUENCES: 17.2 365 4 US-08-928-383B-23 Sequence 2, Appl Sequence 2, Appl Sequence 2, Appl Sequence 3, Appl Sequence 2, Appl Sequence 3, Appl Se	Match Length DB ID	APPLICANT: CO.	rley, Nei	1 c.	
100.0 390 2 US-08-979-424-1 Sequence 1, Appli ; NU 5.08-98-98-183B-26 Sequence 2, Appl ; CO 17.2 365 4 US-08-928-383B-25 Sequence 2, Appl ; CO 17.2 365 4 US-08-928-383B-2 Sequence 2, Appl ; CO 17.0 365 2 US-08-928-383B-2 Sequence 23, Appl ; CO 17.0 365 2 US-08-79-424-3 Sequence 23, Appl ; CO 17.0 365 2 US-08-79-496-2 Sequence 2, Appl ; CO 17.0 365 4 US-08-928-383B-24 Sequence 22, Appl ; CO 17.4 365 4 US-08-928-383B-24 Sequence 22, Appl ; CO 17.4 365 4 US-08-928-383B-24 Sequence 24, Appl ; CO 17.4 387 4 US-09-968-051A-3 Sequence 24, Appl ; CO 17.8 318 4 US-09-068-051A-3 Sequence 22, Appl ; CO 17.8 318 4 US-09-068-051A-3 Sequence 22, Appl ; CO 17.8 318 4 US-09-068-051A-3 Sequence 23, Appl ; CO 17.8 318 4 US-09-068-051A-3 Sequence 32, Appl ;		TITLE OF INVEN		RAL RECEPTOR	PROTEIN
17.6 365 4 US-08-928-383B-26 Sequence 26, Appl ; CO 17.2 365 4 US-08-928-383B-2 Sequence 23, Appl ; CO 17.2 365 4 US-08-979-424-3 Sequence 23, Appl ; 17.0 365 2 US-08-979-424-3 Sequence 23, Appl ; 17.0 365 2 US-08-979-426-2 Sequence 2, Appl ; 17.0 365 4 US-08-978-496-2 Sequence 2, Appl ; 14.8 319 4 US-08-928-383B-24 Sequence 22, Appl ; 14.4 365 4 US-08-928-383B-24 Sequence 22, Appl ; 14.4 365 4 US-08-928-383B-24 Sequence 24, Appl ; CO 18.8 318 4 US-09-068-051A-32 Sequence 23, Appl ; CO 18.8 318 4 US-09-068-051A-32 Sequence 32, Appl ; CO 18.8 318 4 US-09-068-051A-32 Sequence 32, Appl ;	100.0 390 2 US-08-979-424-1 Sequence 1,	NUMBER OF SEQU	ENCES: 3		
17.2 365 4 US-08-928-3838-2 Sequence 2, Appli ; 17.2 365 4 US-08-928-3838-23 Sequence 2, Appli ; 17.0 365 4 US-08-978-424-3 Sequence 3, Appli 17.0 365 4 US-09-272-496-2 Sequence 2, Appli 14.8 319 1 US-08-597-4858-2 Sequence 22, Appli 14.4 365 4 US-09-686-051A-22 Sequence 22, Appli 14.4 365 4 US-09-175-928-2 Sequence 24, Appl 14.4 387 4 US-09-175-928-2 Sequence 24, Appl 15.0 12.8 318 4 US-09-068-051A-32 Sequence 24, Appl 15.0 12.8 318 4 US-09-068-051A-32 Sequence 32, Appl 15.0 12.8 318 4 US-09-068-051A-32 Sequence 32, Appl 15.0 12.8 318 4 US-09-068-051A-32 Sequence 32, Appl 15.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12	17.6 365 4 US-08-928-383B-26 Sequence 26	CORRESPONDENCE	ADDRESS:		
17.2 365 4 US-08-928-383B-23 Sequence 23, Appl ; 17.0 365 2 US-08-979-424-3 Sequence 2, Appl1 ; 17.0 365 4 US-09-272-496-2 Sequence 2, Appl1 ; 14.8 319 1 US-08-577-495B-22 Sequence 22, Appl ; 14.8 319 4 US-09-068-051A-22 Sequence 22, Appl ; 14.4 365 4 US-08-928-383B-24 Sequence 24, Appl ; 14.4 367 4 US-09-175-928-2 Sequence 24, Appl ; 12.8 318 4 US-09-068-051A-32 Sequence 2, Appl ;	17.2 365 4 US-08-928-383B-2	ADDRESSEE:	Incyte Ph	armaceutical	B, Inc.
17.0 365 2 US-08-979-424-3 Sequence 3, Appli ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	17.2 365 4 US-08-928-383B-23	STREET: 317	4 Porter	Dr.	
17.0 365 4 US-09-272-496-2 Sequence 2, Appli ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	17.0 365 2 US-08:979-424-3 Sequence		Alto		
14.8 319 1 US-08-597-495B-22 Sequence 22, Appl ; 14.8 319 4 US-08-051A-22 Sequence 22, Appl ; 14.4 365 4 US-08-928-383B-24 Sequence 22, Appl ; CO 14.4 387 4 US-09-775-928-2 Sequence 2, Appl ; CO 12.8 318 4 US-09-075-928-3	17.0 365 4 US-09-272-496-2 Sequence	STATE: CA			
14.8 319 4 US-09-068-051A-22 Sequence 22, Appl ; 14.4 365 4 US-08-928-383B-24 Sequence 24, Appl ; CO 14.4 387 4 US-09-175-928-2 Sequence 2, Appli ; CO 12.8 318 4 US-08-068-051A-32 Sequence 32, Appli ;	14.8 319 1 US-08-597-495B-22 Sequence	COUNTRY: US	æ		•
14.4 365 4 US-08-288-283B-24 Sequence 24, Appl ; CO 14.4 387 4 US-09-175-928-2 Sequence 2, Appli ; 12.8 318 4 US-09-068-051A-32 Sequence 32, Appl ;	14.8 319 4 US-09-068-051A-22	ZIP: 94304			
14.4 387 4 US-09-175-928-2 Sequence 2, Appli ; 12.8 318 4 US-09-068-051A-32 Sequence 32, Appl ;	14.4 365 4 US-08-928-383B-24 Sequence	COMPUTER READA	BLE FORM:		
12.8 318 4 US-09-068-051A-32 Sequence 32, Appl ;	14.4 387 4 US-09-175-928-2 Sequence	MEDIUM TYPE:	Diskett	a) :	
	12.8 318 4 US-09-068-051A-32 Sequence	COMPUTER: I	BM. Compat	ible	

sequence 2, Appl Sequence 11, Appl Sequence 14, Appl Sequence 2, Appl Sequence 12, Appl Sequence 12, Appl Sequence 13, Appl Sequence 17, Appl Sequence 17, Appl Sequence 17, Appl Sequence 44, Appl Sequence 46, Appl Sequence 2, Appl Sequence 49, Appl Sequence 47, Appl

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TORRENT APPLICATION DATA:
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CAR, A No. 6210921el Coxsackievirus and Adenovirus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MARLICEVILCGIADPT ---- SGLSITTPEQRIEKAKGETAYLPCKFTLSPB--DQGPLD
                                                                                                                                                                                                                APPLICANT: Robert W. Finberg, Jeffrey M. Bergelson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17.6%; Score 353.5; DB 4;
361 IPGGVSSSGLSRMGAVPVMVPAQSQAGSLV 390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US/08/928,383B
                                                                                                                                                                                                                                                                                                                                                                           ADDRESSEE: LAHIVE & COCKFIELD, LLF
                                                                                                                                                                                                                                           and Marshall S. Horwitz
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                ; Sequence 26, Application US/08928383B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELECOMMUNICATION INFORMATION
                                                                                                                                                                                                                                                                                              TITLE OF INVENTION: Receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Mandragouras, Amy E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                27.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 12-SEP-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 13-SEP-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (617)227-7400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 365 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                      28 State Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (617)742-4214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches 113; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                         STATE: Massachusetts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity
                                                                                                                                                                                                                                                                        TITLE OF INVENTION:
                                                                                                                                                                                           GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                              CITY: Boston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTRY: USA
                                                                                                                                                                , Patent No. 6210921
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ZIP: 02109
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                                                                                                          US-08-928-383B-26
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        셤
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SSSQPWEVPFVWMPFKQKEKEDQVLSYINGVTTSKPGVSLVYSMPSRNLSLRLEGGGEKD 120
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SDTISKNGTLSSVTSARALRPPHGPPRPGALTPTPSLSSQALPSPRLPTTDGAHPQPISP 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SGPYSCSVNVQDKQGKSRGHSIKTLELNVIVPPAPPSCRLQGVPHVGANVTLSCQSPRSK 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SDTISKNGTLSSVTSARALRPPHGPPRPGALTPTPSLSSQALPSPRLPTTDGAHPQPISP 360
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    241 VSTGPGAAVVAGAVVGTLVGLGLLAGLVLLYHRRGKALEEPANDIKEDAIAPRTLPWPKS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 390;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%; Score 2012; DB 2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Mismatches
                                  US/08/979,424
                                                                FILING DATE: Filed Herewith
                                                                                                                                                                                                                                                REGISTRATION NUMBER: 36,749
                                                                                                                                                                                                                                                                                                      TELECOMMUNICATION INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100.0%;
                                                                                                                                                                                             ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                             REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                              TELEPHONE: 650-855-0555
                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 390 amino acida
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                     NAME: Billings, Lucy J
                                                                                                                                                                                                                                                                                                                                                                                                                                      SECUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                           TELEFAX: 650-845-4166
                                                                                                                                                                                                                                                                                                                                                                                                           INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRANDEDNESS: single
                                                                                                                  PRIOR APPLICATION DATA:
                                     APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LIBRARY: LUNGPET03
                                                                                                                                        APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Local Similarity
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                                                                                        CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLONE: 1232054
                                                                                                                                                                     FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY:
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71; Mismatches 156; Pred. No. 4.7e-23;

Length 365; Indels 67

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68 VPFVMWFFKQKEKEDOVLSYINGVITSKPGVSLVYSP	-	CO. TOO CHICAGO TOO TOO TOO TOO TOO TOO TOO TOO TOO T
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VPF		1
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285 IKEDAIAPRTLPWPKSSDTISKNGTLSSVTSARALRPPHGPPRPGALTPTPSLSSQALPS 344

277 IRED-----VPPPKSRISTARSYIGSNHSSL------GSMSPSNMEGYSKTQY 318

345 PRLPTTDGAH-PQPISPIPGGVSSSGLSRMGAVPVMVPAQSQAGSLV 390

319 NQVPSEDPERADQSPTLAPAKVAAPNLSRMGAVPVMIPAQSKDGSIV 365

Search completed: August 19, 2002, 17:09:51

Job time: 3219 sec

	GenCore version 4.5	14	150	7.5	898	2 A46512	, 21	בחלד שלה שמשסשסע דלתם	
	Convright (c) 1993 - 2000 Compugen Ltd.	15	149.5	7.4	341	2 JC1512	12	biliary glycoprote	
		16	147	7.3	5175	2 T20992	92	hypothetical prote	
	•	11	147	7.3	5198	2 T43290	06	hemicentin precurs	
OM protein - pro	OM protein - protein search, using sw model	18	144	7.2	349	2 A34815	4815	carcinoembryonic	
	or o								
Run on:	August 19, 2002, 16:21:32 ; Search time 42.75 Seconds	13	143	7.1	862	862 2 I49583	83	differentiation an	
	(without alignments)	50	142	7.1	278	278 2 A39037	9037	carcinoembryonic	
	876.604 Million cell a							;	
updates/sec		21	141.5	7.0	26926	1 I38344	44	titin, cardiac mus	
		22	141	7.0	458	2 JC1509	60	biliary glycoprote	
Title:	US-09-902-759-39	23	139	6.9	458	1 WWWSR1	R1	biliary glycoprote	
Perfect score:	2012	24	138.5	6.9	495	2 A55181	81	pregnancy-specific	
Sequence:	1 MISLPGPIVITALERPLFIGESRMGAVPVMVPAOSOAGSLV 390	25	138.5	6.9	1323	2 PN0568	68	connectin 3B - chi	
		56	138	6.9	278	2 JC1506	90	biliary glycoprote	
Scoring table:	BLOSUM62	27	138	6.9	419	2 B54312	12	pregnancy-specific	
)	.0 . Gapext 0.5	28	137	6.8	7962	2 I38346	46	elastic titin - hu	
		53	136.5	6.8	518	2 JC4024	24	poliovirus recepto	
Searched:	283138 seqs, 96089334 residues	30	135.5	6.7	426	2 C55181	.81	pregnancy-specific	
		31	135.5	6.7	426	2 B35334	34	pregnancy-specific	
Total number of	Total number of hits satisfying chosen parameters: 283138	32	135	6.7	428	2 JS0032	32	pregnancy-specific	
		33	135	6.7	428	2 I57486	. 98	pregnancy-specific	
Minimum DB seq length: 0	length: 0	34	134	6.7	240	2 JC4121	.21	pregnancy-specific	
Maximum DB sed 1	Maximum DB sec length: 200000000	35	134	6.7	436	2 B55181	.81	pregnancy-specific	
		36	133	9.9	321	2 JH0395	56:	biliary glycoprote	
Post-processing:	Post-Drocessing: Minimum Match 0%	37	133	9.9	351	2 JH0396	96	biliary glycoprote	
•	Maximum Match 100%	38	133	9.9	417	2 JH0394	194	biliary glycoprote	
	Listing first 45 summaries	39	133	9.9	419	2 A36109	60.	pregnancy-specific	
		40	133	9.9	464	2 C30127	72.	transmembrane carc	
Database :	PIR 71:*	41	133	9.9	526	1 A32164	.64	biliary glycoprote	
	1: pirl:*	47	133	9.9	702	2 A3	A36319	carcinoembryonic	

> score greater than or equal to the score of the result being printed, Pred. No. is the number of results predicted by chance to have a and is derived by analysis of the total score distribution.

CTHAMBDIES

RESULT

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Result		Query				
Š.	Score		Match Length DB	DB	Ω	Description
7	176	8.7	299 . 2	7	S56749	junctional adhesio
7	162.5	8.1	344	N	A27681	nonspecific cross-
٣	158.5	7.9	847	n	JH0371	B-cell adhesion pr
4	155.5	7.7	3707	N	S18252	heparan sulfate pr
ស	154.5	7.7	4391	73	A38096	perlecan precursor
9	153.5	7.6	647	73	A35648	B-cell adhesion pr
7	153.5	7.6		~	1040 2 A49356	transient axonal
מ						
60	152.5	7.6	521	À	2. 534338	biliary glycoprote
o	152	7.6	483	~	T17346	hypothetical prote
ះ	151.5	7.5	1036	ď	522383	axonin 1 precursor
1	151.5	7.5	4162	N	T42633	connectin/titin -
12	150.5	7.5	521	~	JC1508	biliary glycoprote

ALIGNMENTS

pregnancy-specific opioid-binding pro

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702 166 338 338

133 132.5 132.5 132.5

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pir2:* pir3:* pir4:*

limbic-system-asso

R;Ozaki, H.; Ishii, K.; Horiuchi, H.; Arai, H.; Kawamoto, T.; Okawa, K.;	on molecule PAM-1; change 01-Feb-2002 to, T.; Okawa, K.;	adhesi #text Kawamo	uman platelet Feb-2002 ai, H.;	sor - hu tigen; E ion 01-:	le precur ttelet an' an) nce_revis 9 coriuchi,	n molecu Fil pla cor piens (m seque 5; S5674	idhesion names: . recept fomo sap oct-1994 . AS9404	SS6749 junctional a NyAlternate platelet Fill C;Species: H C;Date: 27-0 C;Accession: R;Ozaki, H.
						Ë	Iwamatsu, A.; Kita, T.	su, A.
					6	5; S5674	A5940	ssion:
C;Accession: A59406; S56749	_change 01-Feb-2002	#text	Feb-2002	ion 01-	nce_revis	#seque	ot-199	3: 27-C
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junctional adhesion molecule precursor - human N.Alternate names: F11 platelet antigen; platelet adhesion molecule PAM-1; platelet F11 receptor C.Species: Homo saptions (man) C.Date: 27-Oct-1995 #sequence_revision 01-Feb-2002 #text_change 01-Feb-2002 C.Accession: AS9406; S56749								_

A, Title: Cutting edge: combined treatment of TNF-alpha and IFN-gamma causes redistribution of junctional adhesion molecule in human endothelial cells. A; Reference number: A59406; MUID: 99323940; PMID: 10395639 J. Immunol. 163, 553-557, 1999 A; Accession: A59406

A; Status: preliminary

A, Molecule type: DNA

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A;Cross-references: GB:AAD42050; NID:g5326797; PIDN:AAD42050.1
                                                                            U.P.; Ehrlich, Y.H.; Kornecki, E.
                                                                                                            Siochem. J. 310, 155-162, 1995
AgResidues: 1-299 <02A>
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pross-linking of a novel platelet receptor for monoclonal antibody F11 with

A; Reference number: S56749; MUID:95374438; PMID:7646439

the Fc-gamma-RII receptor.

A, Molecule type: protein

A; Accession: S56749

A, Title: Mechanisms of platelet activation by a stimulatory antibody:

not

8-49, 'X',51-53,62-73, 'E',75-103,123, 'F',125-130; 'FDKDXTIYLMXX'; 'LT',206, 'X', 208,'Q' <NAI> ;Keywords: glycoprotein; phosphoprotein; platelet aggregation; platelet Gaps 189 RQ---LP---SPQTP--FAPALDVIRGSLSLTNLSSSMAGVYVCKAHNEVGTAQ-CNVT 238 112 S--EEGGNSYG-EVK-VKLIVLVPPSKPTVNIPSSATIGNRAVLTCSEQDGSPPSEYTWF 167 58 PRVEWKFDQGD-TTRLVCYNNKITASYE--DRVTFLPT---GITFKSVTREDTGTYTCMV 111 129 NVQDKQGKSRGHSIKTLELMVLVPPAPPSCRLQGVPHVGANVTLSCQSPRSKPAVQYQWD 188 168 KDGIVMPTNPKSTRAFSNSSYVLNPTTGELVFDPLSASDTGEYSCEARNGYGTPMTSNAV 227 69 PFVMWFFKQKEKEDQVLSYINGVTTSKPGVSLVYSMPSRNLSLRLEGLQEKDSGPYSCSV 128 9 VTNILRPLFIGISALAPPSRAQLQLHLPANRLQAVEGGEVVLPAWYTLHGEVSSSQPWEV 68 7 VERKLLCLFILAILLCSLALGSVTVHSSEPEVRIPENNPVKLSCAYS------GFSS 57 A; Note: the order of the peptides other than the amino terminus was R;26-299/Product: junctional adhesion molecule #status predicted <MAT> 8.7%; Score 176; DB 2; Length 299; 25.7%; Pred. No. 0.00014; 46; Mismatches 129; Indels ?;1-25/Domain: signal sequence #status predicted <SIG> 239 LEVSTGPGAAVVAGAVVGTLVGLGLLA-GLVLLYHR 273 228 RMEAVERNVGVIVAAVLVTLILLGILVFGIWFAYSR 263 .. Search completed: August 19, 2002, 17:10:57 --:: 25.7%; 71; Conservative Best Local Similarity Query Match A:Gene: JAM Genetics: Matchea letermined

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Immunoglobulin domain; Receptor; Transmembrane; Glycoprotein; Signal;
                               HCAR and MCAR: the human and mouse cellular receptors for subgroup C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COXSACKIEVIRUS AND ADENOVIRUS RECEPTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                        and
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    I- SIMILARITY: CONTAINS 2 IMMUNOGLOBULIN-LIKE C2-TYPE DOMAINS.

                                                                                                                                                                                                                                                                                                                                                                                                                    18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           agreement
                                                                                                                                                              The murine CAR homologue (mCAR) is a receptor for coxsackie B
                                                                                                                                                                                                                                                                                                                                                                                                                                                        ል
                                                                                                                                                                                                                                                                                                                                                                                                                    use by non-profit institutions as long as its content
                                                                                                                                                                                                                                -1- SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERPAMILY.
                                                                                                                           STRAIN-C57BL/6J; TISSUE-Liver;
Bergelson J.M., Krithivas A., Crowell T.L., Finberg R.W.;
                                                                                                                                                                                                Submitted (MAY-1997) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Usage
                                                                                                                                                                                                                                                                                              There are no
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                IG-LIKE C2-TYPE DOMAIN 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IG-LIKE C2-TYPE DOMAIN 2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             VV (IN REF. 2 AND 3).

    -1- SUBCELLULAR LOCATION: Type I membrane protein.

                                                                   Proc. Natl. Acad. Sci. U.S.A. 94:3352-3356 (1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           license
                                                                                                                                                                                                                                                                                                                                                                                                                                                          modified and this statement is not removed.
                                                   adenoviruses and group B coxsackieviruses.";
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                                                                                                                                                                                                                                                                                                                                                                               the European Bioinformatics Institute.
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EDLINE=97250541; PubMed=9096397;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             entities requires
                Comko R.P., Xu R., Philipson L.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       InterPro, IPR003600; Ig_like.
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InterPro; IPR003598; Ig_c2.
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                                                                                                                                                                                    viruses and adenoviruses.";
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SMART; SM00408; IGC2; 1.
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365 AA; 39947 MW; 5445B4B52A34B2A2 CKC64;

SEQUENCE

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Search completed: August 19, 2002, 17:18:28 Job time: 446 sec

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		12.1	267.5	13.3	344	11 Q9R067		Q9r067 rattus norv
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OC ENKaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; OC Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo. OX NCBI_TaxID=9606; RN 111 RP SEQUENCE FROM N.A. RX MEDIEME=21238289; PubMed=11279107; RA MEDIEME=21238289; PubMed=11239107; RA Govertermous T.; RI Cloning of an immunoglobulin family adhesion molecule selectively RT expressed by endothelial cells."; RI J. Biol. Chem. 276:16233-16231(2001). DR EMBL; AF361746; AAK51065.1; SQ SEQUENCE 390 AA, 41208 MW; CSE3EEBSF41B6EBC CRC64;	Query Match 99.9%; Score 2009; DB 4; Length 390; Best Local Similarity 99.7%; Pred. No. 1.7e-155; Matches 389; Conservative 1; Mismatches 0; Indels 0; Gaps 0; Q; IMISLEGELVTHILEFLEGISALAPPERACLCUHIPANHLOAVEGGEVULPANTLHGEV 60 THISLIPHININININININININININININININININININI	61 SSSQPHEVPPWHPPKQKEKEDQVLSYINGVTTSKPGVSLVYSMPSRNLSLRLEGLQEKD 61 SSSQPHEVPPWHPPKQKEKEDQVLSYINGVTTSKPGVSLVYSMPSRNLSLRLEGLQEKD 61 SSSQPHEVPPWHPPKQKEKEDQVLSYINGVTTSKPGVSLVYSMPSRNLSLRLEGLQEKD 62 SSSQPHFVPPWHPPKQKEKEDQVLSYINGVTTSKPGVSLVYSMPSRNLSLRLEGLQEKD 63 SSSQPHFVPANPPKQKEKEDQVLSYINGVTTSKPGVSLVYSMPSRNLSLRLEGLQEKD 64 11 SSSQPHFVPANPPKQKGKSRGHSIKTLELAVLVPPANPSCKLQGVPHVGANVTLSCQSPRSK 65 SSSQPHFVPANPPKQKGKSRGHSIKTLELAVLVPPANPSPSCKLQGVPHVGANVTLSCQSPRSK	DB 121 SGPYSCSYNVQDKQGKSKRHSIKTIELAVLVPPAPPSSKLAGGVFRVGANVTISCASFRSK 180 Qy 181 PAVQYQWDRQLPSFQTFPAPALDVIRGSISITNISSSRAGGVYCKARNBYGTAQCNVTLE 240 [1] [301 SDTISKNGTLSSYTSARALREPHGEPREGALTPTPSLSSQALPSPRLPTTDGAHPQPISP	RESULT 3 Q95KI3 D Q95KI3; D 01-DEC-2001 (TrEMBLrel. 19, Created) DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update) DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update) DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update) DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update) DF 01-DEC-2001 (TrEMBLrel. 19, Last annotation update) OF 01-DEC-2001 (TrEMBLrel. 19, Last annotation update) OF 01-DEC-2001 (TrEMBLrel. 19, Last annotation update) OF 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
CG. Homo sepiens (Human). CC. Rukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; CC. Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. OX. NCBI_TaxID=9606; RN [1] RP SEQUENCE PROM N.A. RC TISSUB-COLON ADENOCARCINOMA; A Strausberg R., Submitted (NOV-2001) to the EMBL/GenBank/DDBJ databases. RL Submitted (NOV-2001) to the EMBL/GenBank/DDBJ databases. RR SEMBL; BOOL6868; AAH16868.1; RW HYPOthetical protein. KW HYPOTHETICAL BOOL688; AAH1688.1; KW HYPOTHETICAL BOOL688; AAH1688.1; KW HYPOTHETICAL BOOL688; AAH1688.1;	Query Match 100.0%; Score 2012; DB 4; Length 390; Best Local Similarity 100.0%; Pred. No. 9.6e-156; Matches 390; Conservative 0; Mismatches 0; Indels 0; Gaps 0; MISLEGELVINILREPLFIGISALAPPSRAQLQLHILPANRIQAVEGGEVVLPAMYTLHGEV 60	Qy 61 SSSQEWEVPPVWMPFKQKEKEDQYLSYINGVITSKPGVSLVYSKPSRNLSLRLEGLQEKD 120 HIHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	Oy 181 PAVOYOWDROLPSFQTFFAPALDVIRGSLSLTNLSSSRAGVYVCKAHNEVGTAQCXVTLE 240	OY 301 SDTISKNGTLSSVTSARALRPPHGPPRPGALTPPSLSSQALPSPRLPTTDGAHPQPISP 360	RESULT 2 Q96TS0 ID Q96TS0 D Q96TS0 DT 01-DBC-2001 (TEMBLrel. 19, Created) DT 01-DBC-2001 (TEMBLrel. 19, Last sequence update) DT 01-DBC-2001 (TEMBLrel. 19, Last annotation update) DR 01-DBC-2001 (TEMBLrel. 19, Last annotation update) DR RNDOTHELIAL GELL-SELECTIVE ADHESION MOLECULE. GN ESAM Homo sapiens (Human).

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TKGSDTISKNGTLSSVTSARALRPPKAAPPRPGTFTPTPSVSSQALSSPRLPRVDEPPPQ 360
                                                                                                                                                                E., Wohlgemuth J.,
                                                                                                                                                                                                          "Cloning of an immunoglobulin family adhesion molecule selectively
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     59 EVSSSQPWEVPFVMWFFKQKEKE-DQVLSYINGVTTSKPGVSLVYSMPSRNLSLRLEGLQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 MISLPGPLVTNLLRFLFLGLSALAPPSRAQ1Q1HLP--ANRLQAVEGGEVVLPAWYTLHG
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Mammalia, Butheria; Rodentia; Sciurognathi, Muridae; Musinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 394;
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                                                                                                                                                                                                                                                                                                      394 AA; 41810 MW; 3D2B354943A2227D KCKC64;
                                                                                                                                                                Hirata K.-I., Ishida T., Penta K., Rezaee M., Yang
                                                                                                                                                                                                                                                                                                                                                                           69.4%; Score 1397; DB 11; 72.3%; Pred. No. 1.1e-105;
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EMBL; AF361882; AAK51504.1; -.
                                                                                                                                        MEDLINE=21238298; PubMed=11279107;
                                                                                                                                                                                                                                    expressed by endothelial cells.";
                                                                                                                                                                                                                                                                                                                                                                                                72.3%;
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                                                                                                                                                                                                                                                                                                                                                                                                                          Matches 285; Conservative
                                                                                                                     STRAIN SWISS WEBSTER/NIH;
                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity
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                                                                                              SEQUENCE FROM N.A.
                                                 NCBI_TaxID=10090;
                                                                                                                                                                                       Quertermous T.;
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                                                                                                   Hirai M.,
                                                                                                                                                                                                                                                                                                                                   Length 390,
                                                                                                                                               'Isolation of full-length cDNA clones from macaque brain
                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                            Submitted (APR-2001) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                              CDBF63F2BD464EF5 CRC64;
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                                                                                                                                                                                                                                                                                                                                   Score 1931; DB 6;
Pred. No. 3.8e-149;
                                                                                              Osada N., Hida M., Kusuda J., Tanuma R., Iseki
                                                                                                                                                                                                                                                                                                                                                                                  6; Mismatches
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                                                                                                                        Suzuki Y., Sugano S., Hashimoto K.;
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                                                                                                                                                                                                                                                                 390 AA; 40946 MW;
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                                                                             TISSUE-TEMPORAL LOBE RIGHT;
                                                                                                                                                                                                                                                                                                                                                                                  Conservative
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                                                                                                                                                                                                                                           Hypothetical protein
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                                                      SEQUENCE FROM N.A.
    NCBI_TaxID=9541;
                                                                                                                                                                       libraries.";
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                                                                                                                                                                                                                                                                                                                                                                                  Matches 376;
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121 EGDSGTYRCSVNVQNDEGKS1GHS1KS1ELKVLVPPPAPFSCSLLG6VPIVGTNVTLNCKSP 180
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                                                                                                                                                                              Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
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                                     01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         31.9%; Score 641.5; DB 11;
   01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          38;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pred. No. 1.5e-44;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE-21085660; PubMed-11217851;
                                                                                                                                                                                                                                                                                                                                                                          STRAIN-C57BL/6J; TISSUE=TONGUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   22352 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   InterPro; IPR003600; Ig_like.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              66.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ZMBL; AK009223; BAB26146.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 InterPro; IPR003006; Ig_MHC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SMART; SM00409; IG; 1.
SMART; SM00410; IG_like; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches 129; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nature 409:685-690(2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  InterPro; IPR003599; Ig.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (GD; MGI:1916774; Esam.
                                                                             2310008D05RIK PROTEIN.
                                                                                                                  ESAM OR 2310008D05RIK.
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                                                                                                                                                       Mus musculus (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     204 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Local Similarity
                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                               KCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hayashizaki Y.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Blake J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE
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